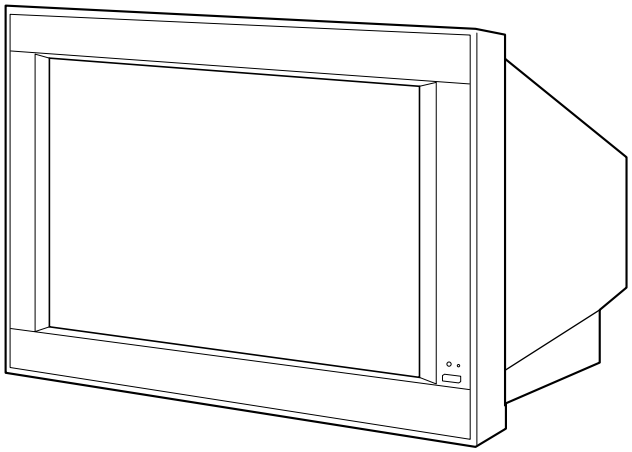
Self Diagnosis Supported model

SERVICE MANUAL DX-1J CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-ES38K9H	RM-970	Korean	SCC-P81C-A

MODEL	COMMANDER	DEST.	CHASSIS NO.

RM-970



KV-ES34K9H/ES38K9H

TRINITRON® COLOR TV

SONY®

Specifications

Antenna	75 ohm external terminal for VHF/UHF	
Television System	NTSC, American TV Standard	
Screen Size (measured diagonally)	KV-ES34K9H : 34 inches KV-ES38K9H : 38 inches	
Channel Coverage		
VHF	2-13	
UHF	14-69	
CATV	1-125	
Power Requirements	220 V AC, 60 Hz	
Number of Inputs/Outputs		
Video (IN)	4	1 Vp-p, 75 ohms unbalanced, sync negative
S1 Video (IN)	3	Y: 1 Vp-p, 75 ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal), 75 ohms
Audio (IN)	6	500 mVrms (100% modulation) Impedance: 47 kiloohms
TV Out	1	Video: 1 Vp-p 75 ohms unbalanced, Sync negative Audio: 500 mVrms
DTV (HD)/DVD Input	2 (Y, P_B, P_R)	Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative P_B: 0.7 Vp-p, 75 ohms P_R: 0.7 Vp-p, 75 ohms
RF Inputs	1	
Converter	1	
Speaker Output	7W x 2	
Dimensions (W x H x D)	KV-ES34K9H : 859 x 650 x 573 mm KV-ES38K9H : 962 x 728 x 615 mm	
Mass	KV-ES34K9H : Approx. 86 kg KV-ES38K9H : Approx. 112 kg	
Power Consumption	Indicated on the rear of the TV	

Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESECOMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFEOPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

TABLE OF CONTENTS

Section | Title | Page

1. GENERAL 8

2. DISASSEMBLY

2-1. REAR COVER ASSEMBLY 35
2-2. SPEAKER BOX ASSEMBLY 35
2-3. H2 BOARD 35
2-4. CHASSIS ASSEMBLY 35
2-5. SERVICE POSITION 36
2-6. F1 BOARD 36
2-7. F1 AND TERMINAL BRACKETS 36
2-8. B2 AND U1 BOARD 36
2-9. A1 BOARD 37
2-10. D BOARD 37
2-11. DH BOARD 37
2-12. H1 BOARD 37
2-13. F2 BOARD 38
2-14. CABLE ARRANGEMENT 39
2-15. REMOVAL OF ANODE-CAP 40
2-16. PICTURE TUBE 41
2-17. H3 BOARD 42
2-18. FRAME SUB-ASSEMBLIES 42

3. SERVICE MODE

3-1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE 44
3-2. SERVICE MODE ADJUSTMENT 44
3-3. MEMORY WRITE CONFIRMATION METHOD .. 44
3-4. ADJUSTING BUTTONS AND INDICATOR 44
3-5. SERVICE MODE LIST 45

4. SET-UP ADJUSTMENTS

4-1. BEAM LANDING 64
4-2. CONVERGENCE ADJUSTMENT 65
4-3. G2 (SCREEN) ADJUSTMENT 67
4-4. FOCUS ADJUSTMENT 1 67
4-5. NECK ASSY TWIST AJUSTMENT 67
4-6. P&P SUB CONTRAST ADJUSTMENT (VIDEO) (SCON) 68
4-7. P&P SUB CONTRAST ADJUSTMENT (RF) (SCON) 68
4-8. P&P SUB-HUE AND SUB-COLOR ADJUSTMENT (VIDEO) (SHUE, SCOL) 68
4-9. P&P SUB-HUE AND SUB-COLOR ADJUSTMENT (RF) (SHUE, SCOL) 68
4-10. WHITE BALANCE, SUB BRIGHT ADJUSTMENT 69
4-11. FOCUS ADJUSTMENT 2 69
4-12. PICTURE DISTORTION ADJUSTMENT 69

Section | Title | Page

5. SAFETY RELATED ADJUSTMENTS

5-1. +B MAX VOLTAGE CONFIRMATION 70
5-2. HV REGULATION CIRCUIT ADJUSTMENT 70
5-3. HV PROTECTOR CIRCUIT ADJUSTMENT 70
5-4. IK PROTECTOR CIRCUIT CHECK (D BOARD) . 70

6. DIAGRAMS

6-1. BLOCK DIAGRAM (1) 71
BLOCK DIAGRAM (2) 73
BLOCK DIAGRAM (3) 75
BLOCK DIAGRAM (4) 77
BLOCK DIAGRAM (5) 79
BLOCK DIAGRAM (6) 81
BLOCK DIAGRAM (7) 83
BLOCK DIAGRAM (8) 85
6-2. CIRCUIT BOARDS LOCATION 87
6-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS 87
6-4. SEMICONDUCTORS 158

7. EXPLODED VIEWS

7-1. SPEAKER SECTION (ES34K9H) 161
7-2. SPEAKER SECTION (ES38K9H) 162
7-3. CHASSIS SECTION 163
7-4. PICTURE TUBE SECTION 164
7-5. FREM, FRONT COVER SECTION 165

8. ELECTRICAL PARTS LIST 166

SELF DIAGNOSIS FUNCTION

1. Summary of Self-Diagnosis Function

- This device includes a self-diagnosis function.
- In case of abnormalities, the STANDBY/스테레오 indicator automatically blinks. It is possible to predict the abnormality location by the number of blinks. The Instruction Manual describes blinking of the /STANDBY/스테레오 indicator.
- If the symptom is not reproduced sometimes in case of a malfunction, there is recording of whether a malfunction was generated or not. Operate the remote command to confirm the matter on the screen and to predict the location of the abnormality.

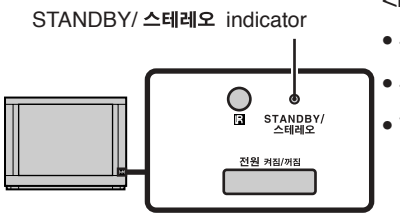
2. Diagnosis Items and Prediction of Malfunction Location

- When a malfunction occurs the STANDBY/스테레오 indicator only blinks for one of the following diagnosis items. In case of two or more malfunctions, the item which first occurred blinks. If the malfunctions occurred simultaneously, the item with the lower blink count blinks first.
- The screen display displays the results regarding all the diagnosis items listed below. The display " 0 " means that no malfunctions occurred.

Diagnosis Item	Number of times STANDBY/스테레오 indicator blinks	Probable Cause Location	Detected Symptoms
+B overcurrent (OCP)	2 times	T8001 (FBT) Rare short-circuit etc. (D board) Q5030 (H-OUT), Q5028 (D board)	Has entered standby mode. (Relay is off when the power turns on.)
+B overvoltage (OVP)	3 times	+B load open (D board) R6570 Open PH6502, control system malfunction L2603 Open	Has entered standby mode.
Vertical deflection stopped (V-STOP)	4 times	IC5004 (V. OUT) (D board) IC201 (CXA2150Q) (A1 board)	Has entered standby mode.
IK error (AKB ERROR)	5 times	VIDEO OUT IC malfunction IC9001, 9002, 9003 (C1 board) IC201 (CXA2150Q) (A1 board)	Has not entered standby mode.
Low-B error	6 times	Sub power supply system load shorted etc. (A1 board)	Has entered standby mode.
Horizontal deflection stopped (H-STOP)	7 times	IC201 (CXA2150Q) (A1 board) Q5031 (S-COR-OUT), Q5030 (H-OUT), Q5028	Has entered standby mode.

3. Blinking count display of STANDBY/스테레오 indicator

< FRONT PANEL >

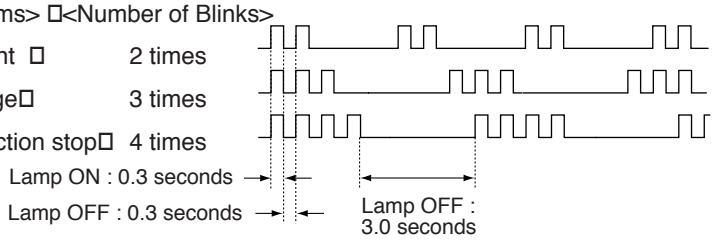


* One blink is not used for self-diagnosis.

• EXAMPLE

<Diagnosis Items> □<Number of Blinks>

• +B overcurrent □ 2 times
• +B overvoltage□ 3 times
• Vertical deflection stop□ 4 times



Release of STANDBY/스테레오 indicator blinking.□

- The STAND BY indicator blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

4. Self-diagnosis screen displays

- In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

<Screen Display Method>

- Quickly press the remote command button in the following order from the standby state.

화면표시 ➡ 5 ➡ 음량 − ➡ 전원

⇧

Be aware that this differs from the method of entering the service mode (음량 +).

Self-diagnosis screen display

SELF CHECK

2	:	+B OCP	G
3	:	+B OVP	G
4	:	V STOP	G
5	:	A K B	G
6	:	LOW B	G
7	:	H STOP	G
101	:	WDT	0

0 0 0 0 0 - 0 0 0 0 0

- "G" : OK, "NG" : DETECTS ONCE OR MORE
- THE 10 DIGITS OF NUMERALS ARE FOR CHECKING, NO RELATION TO DIAGNOSIS.
- 101 : NO LED BLINKING FOR WDT. "0" : NUMBER OF DETECTION.

5. After the self-diagnosis operation

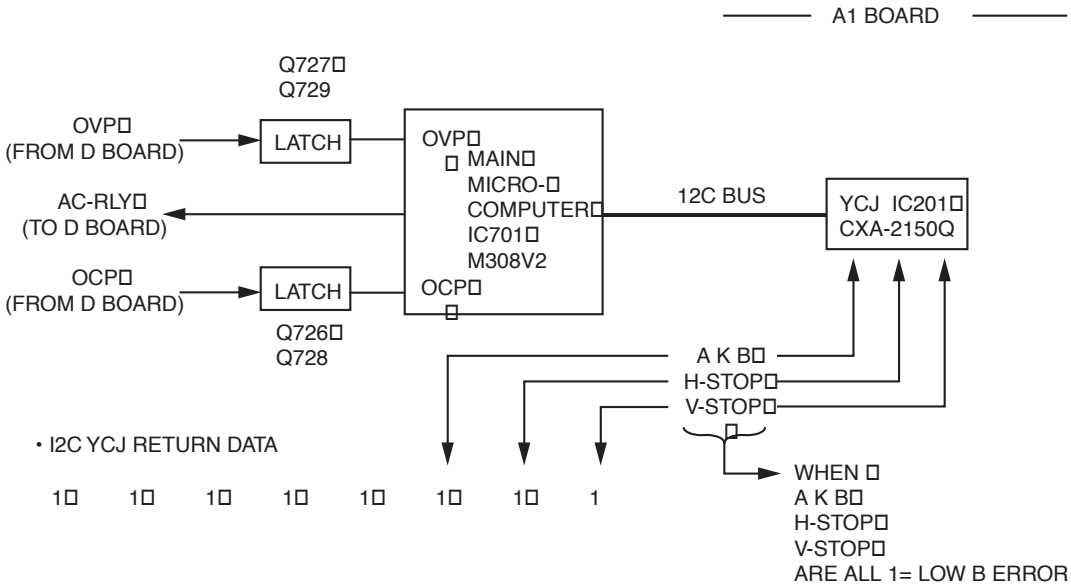
- The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to " 0 ".
- If the results display is not returned to " 0 " it will not be possible to judge a new malfunction after completing repairs.

<Method of Clearing Results Display>

1. Power off (Set to the standby mode)
2. 화면표시 ➡ 5 ➡ 음량 + ➡ 전원 (Service Mode)
3. Channel 8 ➡ 입력 (Test reset = Factory preset condition)

<Method of Ending Self Diagnosis Screen>

- When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.



LED BLINKING TIMES	SYMPTOM
2	+B OCP
3	+B OVP
4	V-STOP
5	AKB
6	LOW-B ERROR
7	H-STOP

+B OCP	If the IC701 Pin 44 (+B OCP DET) is high 2 seconds, turn AC-RELAY low (P-OFF) and make STANDBY LED blinks twice.
+B OVP	If the IC701 Pin 45 (+B OVP DET) is high 2 seconds, turn AC-RELAY low (P-OFF) and make STANDBY LED blinks three times.
V-STOP	If the return data Bit0 (VNG) from CXA2150Q is “1” while 2 seconds, turn AC-RELAY low (P-OFF) and make STANDBY LED blinks four times.
AKB	If the return data Bit2 (IKREF) from CXA2150Q is “0” and there is no change for 20 seconds, make STANDBY LED blinks five times. At this time, AC-RELAY continues to high.
LOW-B ERROR	If the IC701 Pin 69 (AC-RELAY) is high and the Pin 43 (LOW-B ERROR DET) is low while 5 seconds, turn AC-RELAY low (P-OFF) and make STANDBY LED blinks six times.
H-STOP	If the return data Bit1 (HNG) from CXA2150Q is “1” while 2 seconds, turn AC-RELAY low (P-OFF) and make STANDBY LED blinks seven times.
W. D. T.	Observes the watch dock timer (BUS COMMUNICATION ERROR DET) bus communication. If errors are detected, counts up and reform the bus communication and displays the number of time. (No LED blinking).

안전을 위해

경고

아래의 주의사항을 지키지 않으면 **화재·감전**으로 사망 또는 부상을 입을 수 있습니다.

TV위에 물이 든 물건을 놓지 않는다

내부에 물이 들어가면 화재나 감전의 원인이 됩니다.

통풍구에 이물질을 넣지 않는다

내부에 금속류나 타기쉬운 물건 등 이물질이 들어가면 화재나 감전의 원인이 됩니다.

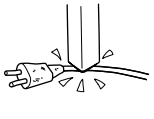
내부를 열지 않는다

내부에는 전압이 높은 부분이 있어, 뒤덮개를 열거나 개조하면 화재나 감전의 원인이 됩니다. 내부의 점검이나 수리는 A/S센터에 의뢰하십시오.

전원코드가 손상되지 않도록 한다

전원코드를 손상시키면, 화재나 감전의 원인이 됩니다.

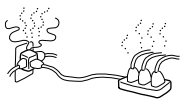
- 전원코드를 가공하거나, 손상시키지 않는다.
- 전원코드에 무거운 것을 올려 놓거나, 잡아당기지 않는다.
- 전원코드를 열기구에 가까이 하지 않는다. 가열하지 않는다.
- 전원코드를 뺄 때는, 반드시 플러그를 잡고 뽑는다.



만일, 전원코드가 손상되었으면 A/S센터에 교환을 의뢰하십시오.

문어발 배선을 하지 않는다

화재의 원인이 됩니다.

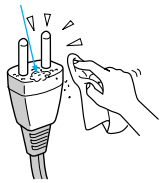


본기기는 국내전용입니다

교류220V의 전원전압으로 사용하십시오. 해외등에서 다른 전원전압으로 사용하면, 화재나 감전의 원인이 됩니다.

전원 플러그는 정기적으로 손질을

전원플러그와 콘센트 사이에, 먼지가 끼어 습기를 흡수하면, 절연저하를 일으켜, 화재의 원인이 됩니다. 정기적으로 전원플러그를 콘센트에서 뽑아, 먼지를 제거해 주십시오.



안정된 장소에 둔다

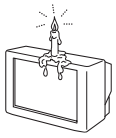
울퉁불퉁한 곳이나 경사진 곳등에 두면, TV가 떨어지거나 넘어져 다칠 수 있습니다. TV스탠드등은, 소니의 지정품(별도판매)등 충분히 강도가 있는 것을 사용하십시오.

물이 있는 장소에 두지 않는다

물이 들어가거나, 젖거나, 목욕탕에서 사용하면, 화재나 감전의 원인이 됩니다. 비나 눈이 내릴 때 창가에서 사용하거나, 해안, 물가에서의 사용은 특히 주의하십시오.

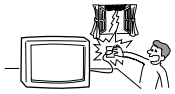
TV위에 양초를 두지 않는다

화재나, 도장표면의 변색이나 변질, 흠집의 원인이 될 수 있습니다.



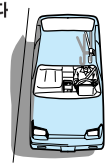
번개가 치면, 안테나선이나 전원 플러그를 만지지 않는다

감전의 원인이 됩니다.



운전중이나 보행중에는 TV를 보지 않는다

자동차등의 운전중이나 보행중에 TV를 보면, 교통사고, 전도등의 원인이 됩니다.



주의

아래의 주의사항을 지키지 않으면 **다치거나** 주변의 가재도구에 **손상**을 입힐 수 있습니다.

통풍구를 막지 않는다

통풍구를 막으면 내부에 열이 몰려, 화재의 원인이 될 수 있습니다. 또한 공기의 대류가 나빠지면, 벽등에 먼지가 부착되어, 검게 될 수 있습니다. 통풍을 좋게 하기 위해 벽에서 10cm이상 떨어뜨려 설치하십시오.

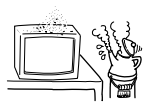
- 뒤집거나 옆으로 눕히거나 엎어놓지 않는다.
- 선반이나 벽장 속에 놓지 않는다.
- 카페트나 이불 위에 놓지 않는다.
- 천을 씌우지 않는다.

젖은 손으로 전원 플러그를 만지지 않는다

젖은 손으로 전원 플러그를 만지면, 감전의 원인이 될 수 있습니다.

습기나 먼지, 뜨거운 김이 많은 장소나 벌레가 들어가기 쉬운 장소, 직사광선이 비치는 장소, 열기구 가까이에 두지 않는다

화재나 감전의 원인이 될 수 있습니다.



TV나 TV문갑 위에 올라가지 않는다, TV위에 무거운 것을 놓지 않는다

넘어지거나, 떨어지거나, 부서지거나, 다칠 수 있습니다.

넘어짐방지 조치를 한다

넘어짐방지의 조치를 하지 않으면, TV가 넘어져 다칠 수 있습니다. 대형 TV는, 스탠드나 바닥, 벽등과의 사이에 적절한 넘어짐방지 조치를 하여 주십시오.

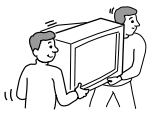
손질시, 전원플러그를 뽑는다

전원플러그를 꽂은채 손질을 하면, 감전의 원인이 될 수 있습니다.

플러그를 콘센트에서 뽑는다

이동시킬 때는, 전원 플러그를 뽑는다

전원 플러그를 꽂은채 이동시키면, 전원 코드가 손상되어, 화재나 감전의 원인이 될 수 있습니다.
대형TV는 무거우므로, 포장상자에서 꺼낼 때나 들어옮길 때는 반드시 2인 이상이 하십시오.
옮길 때는, 충격을 주지 않도록 하십시오. 특히 브라운관에는 주의하십시오.



장기간 외출, 여행시는 전원 플러그를 뽑는다

전원 코드를 뽑을 때는 코드를 잡아 당기지 말고, 반드시 플러그 부분을 잡고 뽑으십시오. TV의 전원이 꺼져 있더라도, 전원코드가 꽂혀 있는 동안은 (주)전원 공급원에 계속해서 연결이 되어 있습니다. TV를 이동할 때나 장기간 동안 사용하지 않을 때에는 플러그를 뽑아 주십시오.

안전을 위해 반드시 전원 플러그를 콘센트에서 뽑아 주십시오.

플러그를 콘센트에서 뽑는다

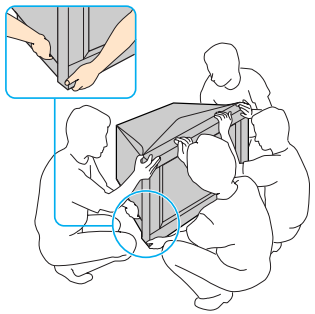
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

사용하시기 전에

TV를 옮길 때

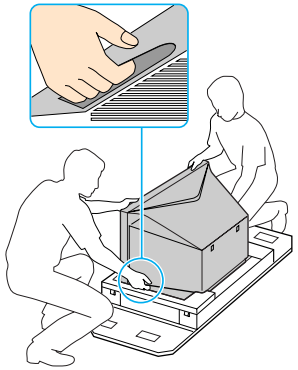
TV를 들어옮길 때는, 반드시 아래의 그림과 같이 들어 주십시오.
그 이외의 부분을 들면, 설치시에 TV와 스탠드의 사이에 손이나 손가락등이 끼어, 다칠 수 있습니다. 또, 딱딱한 물건으로 TV의 표면을 손상시키지 않도록, 충분히 주의하십시오.

KV-ES38K9H를 들 때는
반드시 4 인 이상이 운반하십시오.
브라운관은, 특히 앞쪽이 무거우므로, 넘어지지 않도록 주의해 주십시오.



주의
스피커의 커버 부분은 들지 마십시오.

KV-ES34K9H를 들 때는
반드시 2 인 이상이 운반하십시오.
브라운관은, 특히 정면쪽이 무거우므로, 넘어지지 않도록 충분히 주의하십시오.

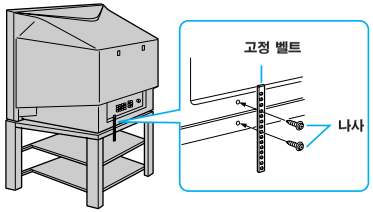


주의
스피커의 커버 부분은 들지 마십시오.

TV의 넘어짐을 막기 위해

어린이가 TV스탠드등에 놓인 TV에 올라가거나, TV를 밀거나 하면, TV스탠드에서, TV가 떨어질 염려가 있습니다.
아래의 방법에 따라, TV의 넘어짐을 방지하십시오.

부속 고정 벨트를, 나사와 쇠고리로 단단히 고정하십시오.



주의
부속 나사 이외는 사용하지 마십시오. 다른 나사를 사용하면 본체에 흠집이 생길 수 있습니다.

TV는 벽에서 10cm이상 떨어뜨려 설치하십시오

벽에서 10cm이상 떨어뜨려 주십시오. 통풍을 좋게 하기 위해서입니다. 벽등에 너무 붙여서, 공기의 대류가 나빠지면, 벽등에 먼지가 부착, 검게 될 수 있습니다.
또한, 통풍구가 막히면, 내부에 열이 몰려, 화재의 원인이 될 수 있습니다.

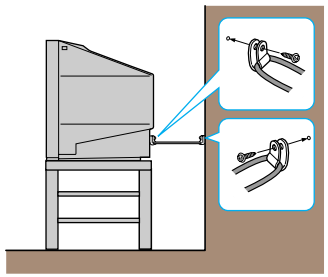
시판하는 스탠드나 래크로 설치할 경우는, TV 밑면보다도 넓고 수평인 스탠드나 래크를 사용하십시오. 또한 내중량이나 올려놓을 수 있는 사이즈도 반드시 확인하십시오.

시판하는 끈이나 쇠사슬등으로 고정할 때는

TV 뒤면과 벽이나 기둥등에 부속 나사와 쇠고리를 고정시키고, 튼튼한 끈이나 쇠사슬로 고정하십시오.

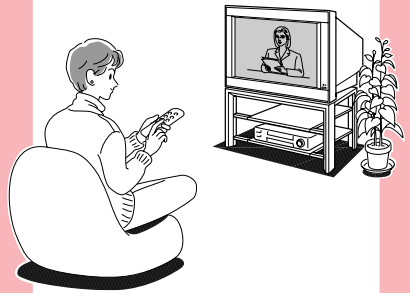
주의
- 경사지거나 울퉁불퉁하거나, 흔들거리는 받침대에 놓지 마십시오. 캐비넷의 변형이나 삐걱거림의 원인이 되어 TV가 파손될 수 있습니다.
- 앞쪽으로 넘어지지 않도록, 충분히 주의하십시오.

쇠고리는, 벽이나 기둥에 확실하게 조여서 고정하십시오.

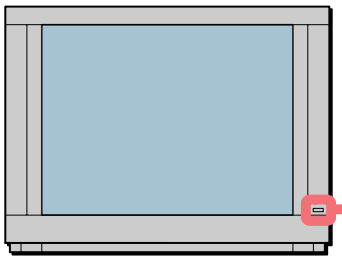


본다

여기서는 TV를 비롯하여 비디오등 TV에 연결한 기기의 영상을 시청할 때의 조정을 설명하고 있습니다.
영상에 맞는 기호의 화면으로 조정하거나, 절전하면서 보거나, 가로길이의 화면이나 두화면 · 다화면으로 보는 등, 다채로운 기능의 조정도 설명하고 있습니다.



TV를 본다



조용히 버튼
일시적으로 소리를 끌 때에 누릅니다. 한 번 더 누르든가 음량 + 버튼을 누르면 소리가 나옵니다.

화면표시 버튼
채널 표시를 할 때 누릅니다.
다시 한 번 누르면 표시는 사라집니다.

채널숫자 버튼, 음량+/-버튼이나 채널 +/-버튼에는 어두운 장소에서도 사용하기 쉽도록 파르스름하게 빛나는 축광재가 들어 있습니다. 따라서 태양빛이나 조명 아래에 약 10분이상 두면 빛이 축적되어 어두워지면 몇시간 계속 빛납니다. 어두운 장소에 방치하면 빛나지 않습니다.

자동으로 전원이 들어오는 만능 채널
STANDBY/스테레오 램프가 점등하고 있을 때는 본체의 채널+/-버튼 또는 리모콘의 채널 숫자 버튼이나 채널 +/-버튼, 채널색인 버튼을 누르면 자동으로 TV의 전원도 들어옵니다.

잠깐 한 마디
절전을 위해 방송 종료후 또는 방송되지 않는 채널을 선택한 상태에서 약 10 분이 지나면 「신호 없을 때 자동 꺼짐」 이라고 표시되며 STANDBY 모드가 됩니다.
방송국의 신호에 따라서는 「신호 없을 때 자동 꺼짐」 기능이 작동하지 않을 수 있습니다.

1 TV의 전원을 넣는다.

지자기* 등의 영향을 제거하는 자동 소자 기능에 의해 「부웅」 하는 소리가 나고 깨끗하게 안정된 화면이 약 10 초 전후로 나옵니다.

* 지구가 하나의 큰 자석이 되어 발생시키는 자기장으로 방위자석이 남북을 나타내는 것도 지자기에 의한 것입니다. 색 떨림의 원인이 될 경우가 있습니다.

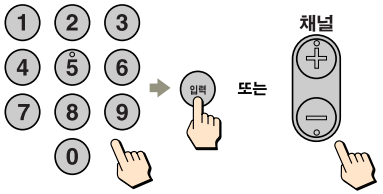
STANDBY/스테레오 램프가 빨갛게 깜박거리고 있을 때는
리모콘의 전원스위치 또는 본체 위면 STANDBY 버튼을 누른다.

STANDBY/스테레오 램프가 꺼져 있을 때는
TV 본체의 전원스위치를 누른다.

주의
STANDBY 상태로 전원을 껐을 때는, 다시 전원을 넣으면 STANDBY 상태로 됩니다.

2 채널 숫자 버튼으로 채널을 선택한다.

채널+/-버튼으로도 채널을 선택할 수 있습니다.



잠깐 한 마디
- 입력버튼을 누르지 않아도 약3초 후에 전환됩니다.
- 앞채널버튼을 누르면, 바로 앞에 보고 있던 채널로 돌아갑니다.

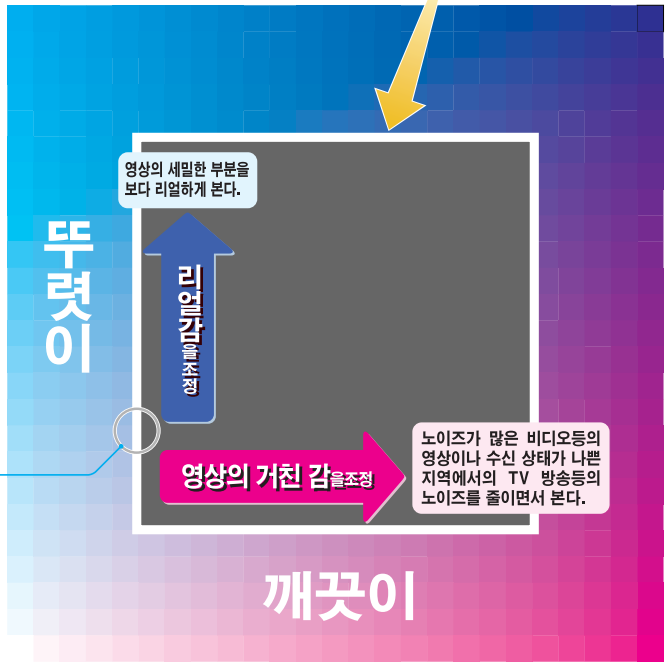
3 음량+/-버튼으로 음량을 조절한다.

잠깐 한 마디
음량 표시 옆에 있는 수치도 조절의 기준이 됩니다.

영상에 맞는 기호의 화면으로 조정한다
[DRC-MF 사용자 조정 버튼]

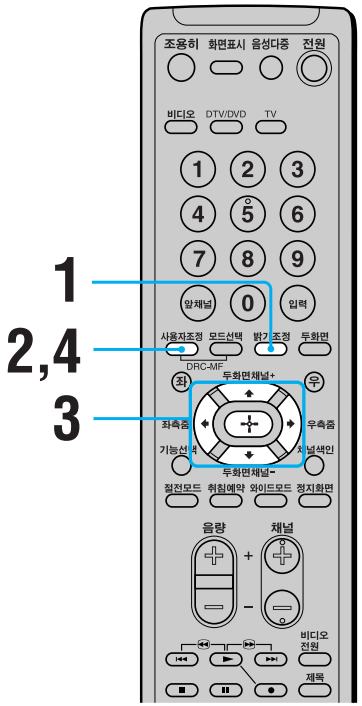
밝기조정 버튼으로「리빙」이나「AV PRO」를 선택하면 (☞13 페이지) **화면의「뚜렷이」(리얼감)「깨끗이」(영상의 거친 감) 을 기호에 맞게 조정할 수 있습니다.**
「리빙」,「AV PRO」를 각각 조정할 수 있습니다. 조정한 내용은 모든 입력 신호 (일반 TV방송 입력 전환용의 버튼으로 선택할 수 있는 입력) 에 공통으로 설정이 됩니다.

●을 움직이는 것만으로, 영상에 맞는 화면을 자유롭게 조정할 수 있습니다.



구입시의 설정
「뚜렷이」는 25
「깨끗이」는 1
양호한 수신 상태에서의 표준적인 TV 방송에 적합한 위치입니다. 리얼감을 낮출 수도 있습니다.

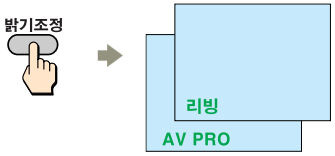
DVD 소프트등 노이즈가 적은 영상은「1」의 상태로 충분히 고화질 영상을 즐길 수 있습니다.



1
2,4
3

1 밝기조정 버튼을 반복해서 눌러「리빙」또는「AV PRO」를 선택한다.

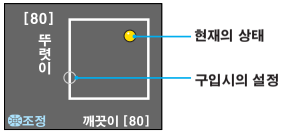
주의
「생생한 화면」과「편안한 화면」(☞13 페이지) 으로는 화면 조정을 못합니다.



2 DRC-MF 사용자 조정 버튼을 누른다.

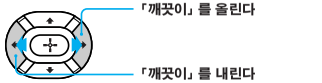
3 ↑/↓/←/→ 로 ●(현재의 상태)를 움직여 기호의 화면으로 조정한다.

계속 누르면 빨리 움직입니다.



「뚜렷이」(리얼감) 을 조정하려면
↑를 누르면 영상의 세밀한 부분을 보다 리얼감이 있는 화질로 만듭니다.

「깨끗이」(영상의 거친감) 을 조정하려면
→를 누르면 영상의 거칠기 (노이즈) 를 억제합니다.



잘짠 함 매디
「뚜렷이」「깨끗이」의 수치를 1~100 의 범위에서 조정할 수 있습니다. 조정할 때의 기준으로 삼으십시오.

4 조정이 끝나면 DRC-MF 사용자 조정 버튼을 누른다.

DRC-MF 사용자 조정이 사라집니다.

주의
- 아래의 경우 DRC-MF 사용자 조정은 불가능합니다.
  - 두화면
  - 채널색인 화면
  - 정지화면
  - 밝기조정 (☞13 페이지) 이「생생한 화면」「편안한 화면」일 때
  - HD디지털방송
- DRC-MF 사용자 조정으로 조정한 내용은 입력 신호마다 따로따로 기억시키지 못합니다.

영상에 맞는 리얼 고화질로 본다 [DRC-MF 모드선택 버튼]

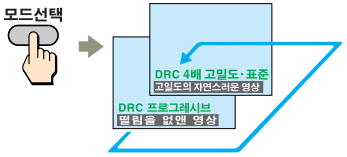
이 TV 탑재의 고화질 회로「DRC-MF」(디지털 · 리얼리티 · 크리에이션 : 멀티펑션) 으로 대화면에서 신경에 거슬리는 화면의 거침을 없애고 세밀하고 질감이 있는 리얼화상을 즐길 수 있습니다.
평상시 보실 때는 구입시의 설정인 DRC 4배 고밀도 (표준) 모드로 즐겨 주십시오. 보다 고밀도의 자연스러운 영상을 즐길 수 있습니다. 정지화면의 문자등의 떨림이 거슬리는 경우 DRC 프로그레시브 모드로 전환시키십시오.

DRC 4배 고밀도 (표준) 모드
일반 NTSC 영상을 4 배의 정보량으로 비추어 내어, 고밀도의 자연스러운 영상으로 만듭니다.

DRC 프로그레시브 모드
순차주사 (프로그레시브) 를 하여 떨림을 없앤 영상으로 만듭니다.

DRC-MF 모드선택 버튼

DRC-MF 모드선택 버튼을 반복해서 누른다.



이런 화상일 경우는	이런 화면 표시를 선택한다
TV나 비디오등 일반적인 영상을 볼 때	DRC 4배 고밀도·표준 고밀도의 자연스러운 영상
정지화면의 문자나 그래픽, 세밀한 가로선등이 많은 영상에서 부분적인 영상의 흔들림이나 떨림이 거슬릴 때	DRC 프로그레시브 떨림을 없앤 영상

잠깐 한 마디
기능선택 화면에서도 조정할 수 있습니다.「(화면/음향)」메뉴로「DRC-MF」를 선택하고「DRC 4배 고밀도 · 표준」이나「DRC 프로그레시브」를 선택하십시오.

주의
이하의 경우는 DRC-MF 모드선택 버튼은 작동하지 않습니다.
- 두화면
- 채널색인화면
- 정지화면
- HD디지털방송

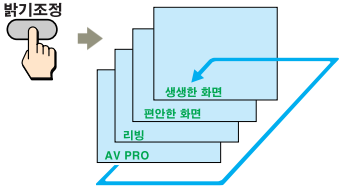
방의 밝기에 맞는 영상을 선택한다 [밝기조정 버튼]

밝기조정 버튼을 누르면 방의 밝기에 맞는 영상을 선택할 수 있습니다. 또「리빙」「AV PRO」를 선택하면 보다 세밀하게 화면을 조정할 수 있습니다 (☞27 페이지).
가정에서 평상시 보실 때는「리빙」을 선택할 것을 권합니다.

밝기조정 버튼

밝기조정버튼을 반복해서 누른다.

한 번 누르면 현재의 밝기 설정이 표시됩니다. 그 후 누를 때마다 다음과 같이 전환됩니다.



생생한 화면
영상의 윤곽과 콘트라스트를 최대한으로 높인 상당히 신축성이 높은 영상이 됩니다.

편안한 화면
약간 밝은 방에 맞추어진 콘트라스트 감이 있는 영상이 됩니다.

리빙
밝기나 색조, 색농도 등 기본적인 조정을 할 수 있습니다 (☞27 페이지).「표준」에서는 표준적인 방의 밝기에 맞춘 적당한 콘트라스트가 있는 영상이 됩니다.

AV PRO
색온도나 블랙보정등 보다 치밀한 조정을 할 수 있습니다 (☞27 페이지).「표준」으로는 콘트라스트와 윤곽 강조를 억제하고 오리지널에 충실한 DRC (☞10 페이지) 의 성능을 보다 이끌어 낸 영상이 됩니다.

절전하면서 본다
[절전모드 버튼]

절전하면서 볼 수 있습니다.

절전모드 버튼

절전모드 버튼을 누른다.

절전중이 됩니다.

절전을 중지하려면

한 번 더 절전모드 버튼을 누른다.
「절전모드 : 표준」으로 표시됩니다.

더욱 절전하려면

절전 레벨의 대소를 선택할 수 있습니다.
「절전모드 : 감소」일 때만 아래의 순서로「절전모드 레벨 : 고」를 선택, 한층 더 절전할 수 있습니다.
「절전모드 : 표준」으로는 절전효과가 없습니다.

1 **기능선택 버튼을 눌러서, 기능선택을 화면에 표시한다.**
2 **♠/♦ 로「(설정)」을 선택하고, ⊕버튼을 누른다.**
3 **♠/♦ 로「초기설정」을 선택하고, ⊕버튼을 누른다.**
4 **♠/♦ 로「절전모드 레벨」을 선택하고, ⊕버튼을 누른다.**
5 **♠/♦ 로「저」(구입시의 설정) 또는「고」를 선택하고, ⊕버튼을 누른다.**
6 **기능선택 버튼을 눌러서, 기능선택을 지운다.**

잠깐 한 마디

- 「절전모드 : 감소」일 때에 전원을 끄면 다음에 전원을 넣을 때도「절전모드 : 감소」가 됩니다.
- 기능선택 화면에서도 조정할 수 있습니다.「(기타기능 설정)」메뉴로「절전모드」을 선택하고「표준」또는「감소」로 해 주십시오.
- 밝기조정 버튼으로「리빙」또는「AV PRO」를 선택하고 있을 때는「절전모드 : 감소」로도 화면을 조정할 수 있습니다 (☞27 페이지). 단「명암」이나「밝기」를 높이면 절전이 되지 않을 경우가 있으므로 삼가해 주십시오.

와이드 화면으로 즐긴다
[고밀도 와이드]

HD디지털방송이나 DVD 플레이어, 비디오 카메라등의 가로세로비율16:9 영상을 세로길이로 기록한 영상을, 16:9의 와이드 영상으로 되돌려 볼 수 있습니다. 또한, 화면상하의 검은 띠 부분을 제외한 부분 (영상이 표시되고 있는 부분)에, 수평 주사선을 모으는 기술에 의해, 상당히 고밀도의 와이드 영상을 즐기실 수 있습니다.

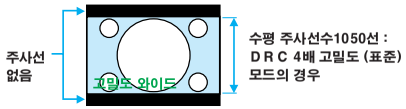
잠깐 한마디

- DVD 소프트나 비디오 카메라로 기록된 와이드 (스퀴즈) 영상 대응의 영상을 보려면, 각 기기의「TV 타입」의 설정을「16:9」로 해 주십시오. 자세한 것은, 각 기기의 사용설명서를 보십시오.
- 이 TV은, 영화필름을 보다 충실하고 매끈한 움직임의 영상으로 재현합니다. 이것은, 영화필름의 신호의 규칙성을 자동적으로 식별하여, 최적의 신호 처리를 하기 때문입니다.

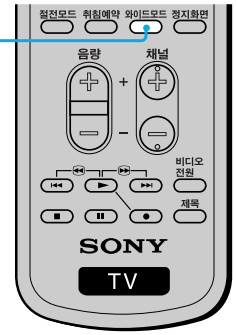
고밀도 와이드「꺼짐」일 때의 영상 (16:9 영상을 세로길이로 한 영상)

고밀도 와이드가 작동하고 있을 때의 영상 (16:9 영상)

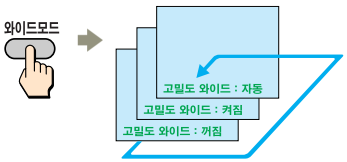
주사선을 세밀하게 하여 보다 고화면으로 만듭니다.



와이드모드 버튼



와이드 모드 버튼을 반복해서 누른다.



보통 때는,「자동」(전원을 넣으면 반드시「자동」이 됩니다) 으로 사용하십시오. 가로세로비율의 신호가 들어간 영상은, 자동 판별하여 세로방향을 압축한 가로세로비율 16:9의 와이드 화면으로 하고 그 밖의 영상은 오리지널 그대로 비추어 냅니다.

「켜짐」을 선택하면

모든 영상을 세로방향으로 압축합니다.

「꺼짐」을 선택하면

모든 영상을 오리지널 그대로 비추어 냅니다.

잠깐 한 마디

- 고밀도 와이드「자동」으로 고밀도 와이드가 작동한 때는, 화면 아래 부분에「고밀도 와이드」라고 약 3초간 표시됩니다.
- 기능선택 화면에서도 조정할 수 있습니다.「(기타기능 설정)」메뉴에서「고밀도 와이드」를 선택하고,「자동」,「켜짐」또는「꺼짐」으로 해 주십시오.

다음 페이지에 계속

와이드 화면으로 즐긴다 [고밀도 와이드] (계속)

「자동」일 때의 주의

연결한 기기에 따라서는, 올바르게 판별되지 않을 수 있습니다.

고밀도 와이드에 관한 주의

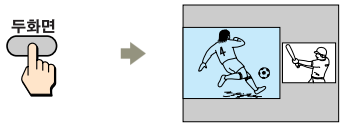
- 일반 TV방송등 가로세로비율4:3의 영상에서, 고밀도 와이드를「켜짐」으로 하면, 세로방향으로 압축되어 부자연스럽게 보입니다.
- 고밀도 와이드 기능을, 찻집이나 호텔 등에서, 영리목적, 또는 손님들에게 시청시킬 목적으로 사용하면, 저작권법으로 보호받고 있는 저작권의 권리를 침해할 우려가 있으므로 주의 바랍니다.
- HD디지털방송이나 상하에 검은 띠가 들어가 있는 가로길이 영상등의 와이드 영상일 때는,「자동」또는「꺼짐」으로 해 주십시오.
  「켜짐」을 선택하면, 원래부터 들어가 있는 검은 띠의 부분까지 세로방향으로 압축되어, 보다 눌린 영상이 되기 때문입니다.
- TV의 모니터 출력 단자에 연결한 비디오로, 고밀도 와이드로 한 영상 (16:9 영상) 을 그대로의 화면 사이즈로 녹화하는 것은 불가능합니다. TV의 비디오 출력 단자로부터는, 원래의 오리지널 영상 (16:9 영상을 세로길이로 한 영상) 의 신호로 출력되기 때문입니다.

두화면으로 본다 [두화면 버튼]

좌우의 화면 사이즈를 바꾸어, 2 개의 채널을 동시에 볼 수 있습니다. 또, TV나 TV에 연결한 비디오등의 영상도 동시에 볼 수 있습니다.

두화면 버튼을 누른다.

한 번 더 누르면 한 화면으로 돌아갑니다.



주의

- 다음 화상은 두화면에서 동시에 볼 수 없습니다.
  -같은TV채널
  -동일 입력의 화상 (비디오 1 과 비디오 1 등)
  -DTV(HD)/DVD 입력 끼리의 화상 조합
- DTV(HD)/DVD 입력 단자로부터의 영상은 좌측 화면에만 표시됩니다.
- 두화면인 상태로 전원을 끄고 다시 한번 전원을 넣으면 한 화면으로 돌아갑니다.

영상이나 가로길이의 화면에 관한 주의

- 두화면에서는, 고밀도 와이드 기능은 작동하지 않습니다. 단, 식별 제어 신호가 있는 영상은 판별하여 와이드 화면상태로 표시됩니다.

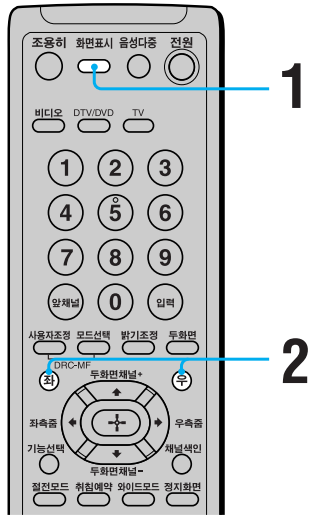
- 두화면은 좌우 각각 다른 회로에서 신호 처리하고 있습니다. 따라서 영상이나 음향등 좌우 화면 사이에 다소 차이가 있습니다.

녹화에 관한 주의

- 두화면 영상은 녹화할 수 없습니다.
- 구입시는 비디오 1 입력 단자에 연결한 기기의 화상은 출력되지 않도록 설정이 되어 있습니다 (☞43 페이지).

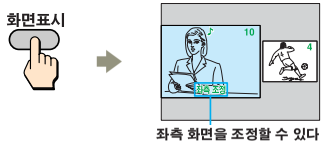
조정할 화면을 선택한다 [좌/우 버튼]

채널이나 입력을 선택하거나 음량을 조절할 수 있는 화면 (조정 화면) 을 선택합니다.
두 화면을 표시한 직후는 좌측 화면이 조정 화면으로 되어 있습니다. 또 조정 화면의 음성이 스피커로부터 나옵니다 (헤드폰의 음성은 ☞20 페이지).



1 화면표시 버튼을 눌러 조정화면이 어느쪽으로 되어 있는지 확인한다.

두화면을 표시한 직후는 좌측 화면이 조정 화면으로 되어 있습니다.



2 조정하고 싶은 화면이「조정 화면」으로 되어 있을 때는

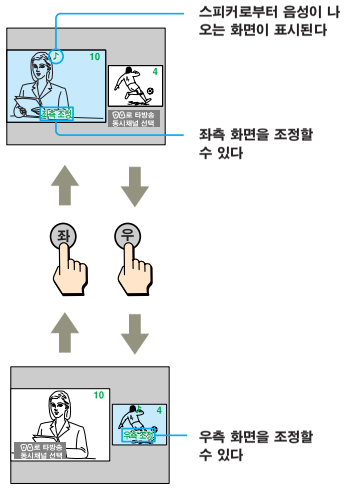
그대로 채널이나 입력을 선택하거나 음량을 조절해 주십시오.

다음 페이지에 계속

두화면으로 본다 [두화면 버튼] (계속)

조정하고 싶은 화면을 변경하고 싶을 때는

조정하고 싶은 쪽의 버튼 (좌/우버튼) 을 누른다.
조정화면이 바뀝니다.



잠깐 한 마디

- 기능선택 화면에서도 조정할 수 있습니다. 「▣(두화면)」 메뉴로 「좌우선택」를 선택하고 「좌측 조정」 이나 「우측 조정」 으로 해 주십시오.
- 조정화면 (헤드폰 모드 「1」 일 때 ☞20 페이지) 또는 스피커로 음성이 나오고 있는 화면 (헤드폰 모드 「2」 일 때 ☞20 페이지) 으로 방송이 종료되면 자동적으로 소리가 꺼집니다. 한 화면으로 되돌리고 나서 종료되지 않은 채널을 선택하면 소리가 납니다. 또 절전을 위해 조정 화면에서 방송이 종료되고 (또는 방송이 없는 채널인 채) 약10 분이 지나면 「신호 없을 때 자동 꺼짐」 이라고 표시되고 자동적으로 STANDBY 모드로 됩니다.

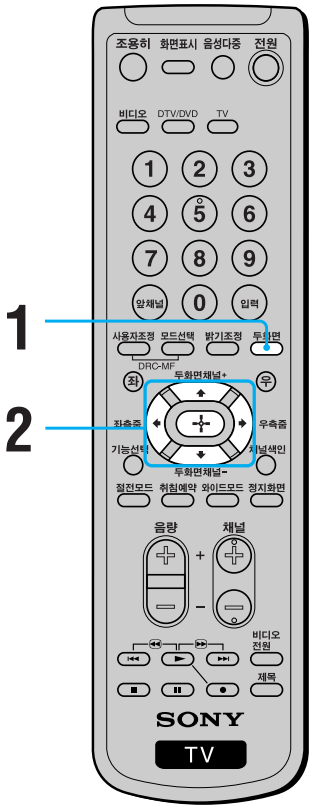
두화면에서 채널을 선택하려면

어느쪽의 화면도 각각의 채널을 선택할 수 있습니다.

화면표시 버튼을 눌러 조정 화면을 확인하고 채널을 바꾼다.

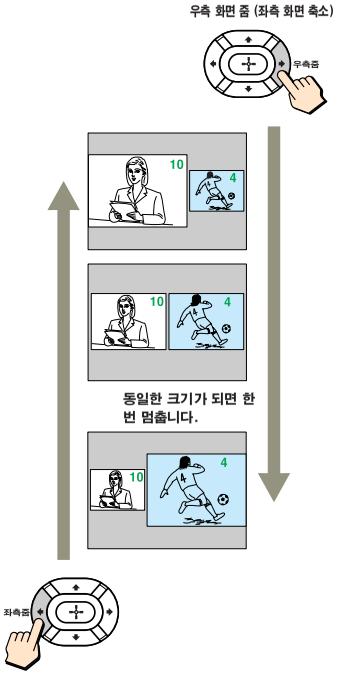
채널을 바꾸고 싶은 화면	누르는 버튼
조정 화면 (「좌측 조정」 또는 「우측 조정」 이라고 표시된 조정화면입니다)	숫자 또는 채널
조정 화면이 아닌 화면	채널+ / 채널−

화면 사이즈를 바꾼다 [좌측줌/우측줌]



1 두화면이 되어 있지 않으면 두 화면 버튼을 누른다.

2 크게 할 쪽에 ←/→를 계속 눌러 희망하는 사이즈로 되면 손가락을 뗀다.



잠깐 한 마디

좌우의 화면 사이즈를 바꾸었을 때는 그 크기를 TV가 기억하기 때문에 다시 두화면으로 했을 때에 그 크기로 표시합니다.

다음 페이지에 계속

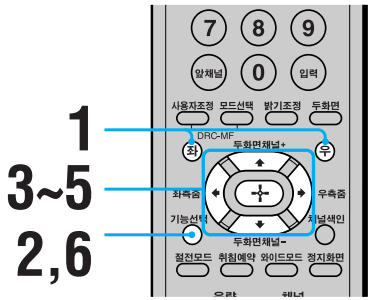
두화면으로 본다 [두화면 버튼] (계속)

두화면에서 헤드폰의 음성을 선택하려면

스피커로 음성을 내지 않고 헤드폰으로 듣거나 헤드폰과 스피커로 좌우 화면의 음성을 따로따로 낼 수가 있습니다. 헤드폰 모드를 설정하십시오.

헤드폰 모드「1」로 하면
조정 화면의 음성이 헤드폰으로 들립니다. 스피커로는 음성이 나오지 않습니다.
좌/우 버튼을 누르면, 헤드폰의 음성도 바뀝니다.

헤드폰 모드「2」로 하면
헤드폰과 스피커로 좌우 각각 화면의 음성이 헤드폰으로 들립니다.
설정후는 좌/우 버튼을 누르고 조정 화면을 전환해도 헤드폰의 음성은 전환 되지 않습니다.

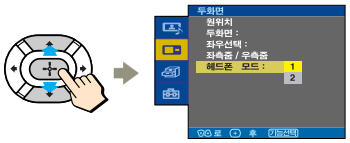


1 헤드폰 모드를「2」로 설정할 때는, 좌/우 버튼을 눌러, 스피커로 음성을 들을 화면을 선택한다.
(「1」로 설정할 때는 이 조정은 불필요합니다).

2 기능선택 버튼을 눌러서, 기능선택을 표시한다.

3 ↑/↓로「▣(두화면)」을 선택하고, ⊕버튼을 누른다.

4 ↑/↓로「헤드폰 모드」를 선택하고, ⊕버튼을 누른다.



5 ↑/↓로「1」또는「2」를 선택하고, ⊕버튼을 누른다.
「2」를 선택한 때는 헤드폰에서는 스피커와 반대의 화면의 음성이 나옵니다.

6 기능선택 버튼을 눌러서, 기능선택을 지운다.

주의
헤드폰 모드「2」로 설정하고 일단 한번 두화면 모드를 종료했다가 다시 두화면 모드로 하면 헤드폰 모드는「1」로 돌아갑니다.

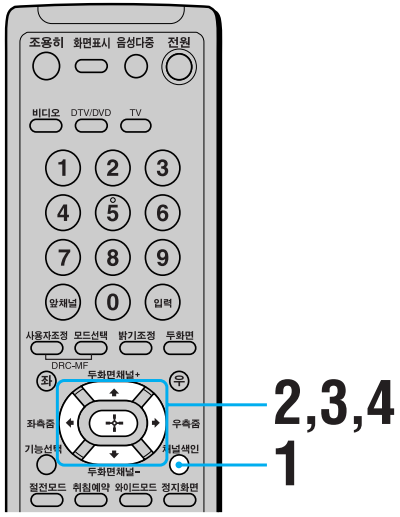
잠깐 한 마디
헤드폰을 빼면「헤드폰 모드」의 설정에 의하여 다음 음성이 스피커로부터 나옵니다.
- 「1」일 때 : 헤드폰으로 듣고 있던 음성
- 「2」일 때 : 스피커의 음성 그대로

채널을 일람 표시한다 [채널색인 버튼]

보고 있는 채널을 고화면으로 크게 표시한 상태에서, 미리 수신 설정 (☞38 페이지) 한 모든 채널이 왼쪽 위에서 시계 방향으로 표시됩니다 (스크롤 표시). 스크롤하고 있는 작은 화면에서 보고 싶은 채널을 선택할 수 있습니다. 프로그램 내용의 체크나 채널 선택을, 보다 매끄럽고 즐겁게 할 수 있습니다.

주의
채널색인 버튼을 누르기 전에, 채널을 설정해 두십시오 (☞38 페이지). 수신 설정된 채널만 채널색인 화면에 나오기 때문입니다.

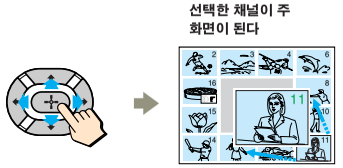
잠깐 한 마디
STANDBY/스테레오 램프 점등중에 채널색인 버튼을 누르면, 전원이 들어가고, 채널색인 화면이 표시됩니다. 보고 싶은 프로그램이 정해져 있지 않을 때에 편리합니다.



1 채널색인 버튼을 누른다.
보고 있던 채널이 중앙에 표시되고, 수신 설정 (☞38 페이지) 되어 있는 채널이 자동적으로 왼쪽 위에서부터 시계 방향으로 표시됩니다.

보조 화면 윈도우
채널의 ＋버튼을 누르면, 다음의 12 채널을 표시합니다. －버튼을 누르면, 앞의 12 채널로 되돌아갑니다.

2 ↑/↓/←/→로 주위의 보고 싶은 채널에 프레임을 맞추어, ⊕버튼을 누른다.
선택한 채널이 중앙에 줌 업하며 주 화면이 되고, 음성도 바뀝니다.



다음 페이지에 계속

채널을 일람 표시한다 [채널색인 버튼] (계속)

3 **다른 채널을 보고 싶을 때는, 순서 2를 반복한다.**

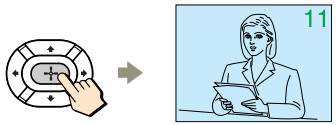
↑/↓/←/→로 다시 한번 프레임을 주위의 화면으로 이동하면, 주 화면에는 채널색인 화면으로 했을 때의 채널이 표시됩니다.

순서 2에서 선택한 채널을 한 화면으로 볼 때는

순서 4로 가십시오.

4 **⊕버튼을 누른다.**

주 화면이 줌 업하고, 한 화면이 됩니다.



도중에 채널색인 화면을 지워 없앨 때는

채널색인 버튼을 누르면, 그 때 주 화면에서 보고 있던 채널이 한 화면으로 됩니다.

주의

- 채널색인 화면 표시중에, 채널 숫자 버튼으로 채널을 선택하거나, 입력을 바꾸거나 하면, 채널색인이 해제되고, 그 채널 또는 입력으로 됩니다.
- 채널 색인 화면은 녹화할 수 없습니다.

잠깐 한 마디

- 두화면일 때 채널색인 버튼을 누르면 조정 화면이 주 화면으로 됩니다. 단「헤드폰 모드」가「2」로 (☞20 페이지), 헤드폰을 연결하고 있으면, 스피커로부터 음성이 나오고 있는 화면이 주화면으로 됩니다. 또 도중에 채널색인 버튼을 누르면 한 화면으로 됩니다.
- 주화면으로 방송이 종료되면 절전을 위해 약10분 지나면「신호 없을 때 자동 꺼짐」이라고 표시되며 자동적으로 STANDBY 모드로 됩니다.

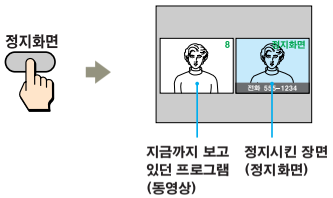
화면을 정지시킨다 [정지화면 버튼]

시청자 선물의 응모처나 요리의 재료등을 메모하고 싶을 때, 화면을 정지시켜서 확인할 수 있습니다. 동시에 지금까지 보고 있던 프로그램도 즐길 수 있습니다.

정지화면 버튼

정지시키고 싶은 장면에서 정지화면 버튼을 누른다.

두화면이 되고 메모 하고 싶은 장면이 오른 쪽에 나옵니다. 한번 더 누르면 한 화면으로 돌아옵니다.

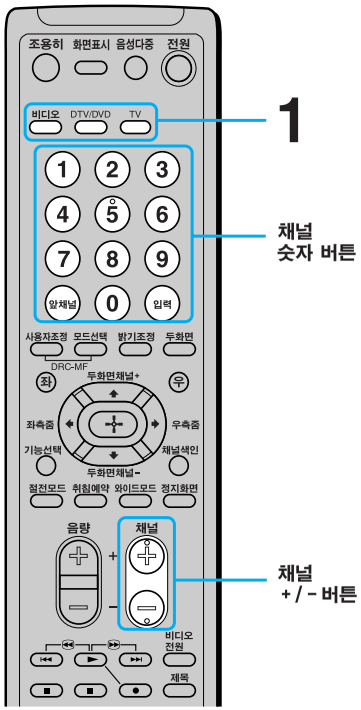


주의

- 두화면이나 채널색인 화면을 보고 있을 때는 메모를 할 수 없습니다.
- 메모중에 채널이나 입력을 바꾸면 한 화면으로 돌아옵니다.
- 절전을 위해 좌측 화면으로 방송이 종료되고 (또는 방송이 없는 채널 상태로) 약10분 지나면「신호 없을 때 자동 꺼짐」이라고 표시되며 자동적으로 STANDBY 모드가 됩니다.

TV에 연결한 기기의 영상을 본다

입력을 바꾸어 TV에 연결한 비디오 기기나 DVD등의 영상을 볼 수 있습니다. 접속의 방법에 관해서는, ☞41~47 페이지를 보십시오.



잠깐 한 마디

TV 본체의 입력선택 버튼을 반복해 눌러도 입력을 전환할 수 있습니다.

TV→ 비디오 1→ 비디오 2→ 비디오 3
DTV/DVD2←DTV/DVD1← 비디오 4

1 입력선택용의 버튼을 눌러서 보고 싶은 영상을 선택한다.

각 버튼을 누를 때마다 각각의 단자에 연결한 각 기기의 영상으로 전환됩니다.

누를 때마다	이하에 연결한 기기의 영상이 됩니다.	화면 표시도 바뀝니다.
비디오	• 비디오 1입력 단자	비디오 1*
	• 비디오 2입력 단자	비디오 2*
	• 비디오 3입력 단자	비디오 3*
	• 비디오 4입력 단자	비디오 4
DTV/DVD	• DTV(HD)/DVD1입력 단자	DTV/DVD1
	• DTV(HD)/DVD2입력 단자	DTV/DVD2

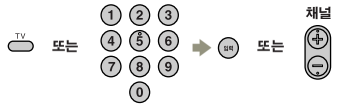
* S1 비디오 단자에 연결하고 있을 때는, 「S비디오 1」~「S비디오 3」라고 표시됩니다.

2 접속되어 있는 기기를 조정한다.

자세한 내용은, 「TV의 리모콘으로 타기기를 조정한다」(☞25 페이지), 및 각 기기의 사용설명서를 보십시오.

TV 화면으로 되돌릴 때는

TV버튼, 채널 숫자 버튼또는 채널 + / - 버튼을 누른다.

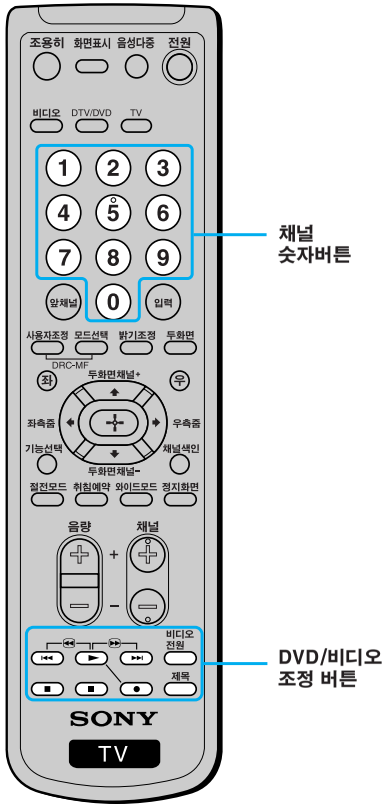


TV의 리모콘으로 타기기를 조정한다

TV의 리모콘으로 소니제품의 비디오기기나 DVD등을 조정할 수 있습니다.

TV의 리모콘으로 조정할 수 있는 기기를 설정한다

연결한 기기의 등록번호를 설정하여, TV의 리모콘으로 조정할 수 있는 기기를 선택합니다.



예)여기에서는 VTR2(8mm)로 설정합니다.

1 비디오 전원 버튼을 누르면서, 채널 숫자 버튼으로 연결된 기기의 설정번호를 누른다.

조정할 수 있는 기기	기기등록번호
DVD	00 (구입시의 설정)
VTR1(베타)	01
VTR2(8mm)	02
VTR3(VHS)	03
MDP	04
CD	06
MD	07

주의

- 연결된 기기에 따라서는, 기기등록번호의 설정을 해도 조정이 안되는 경우나, 일부의 버튼이 작동되지 않는 경우가 있습니다.
- 리모콘의 건전지를 교체하면 기기등록번호의 설정은, 구입시의 설정으로 돌아갑니다.
- 연결되어 있는 기기에 기기선택 스위치가 붙어 있을 때는, TV버튼으로 TV를 선택해 주십시오.

2 선택한 기기를 조정한다.

각 기기의 조정 버튼의 기능에 대해서는, ☞26 페이지를 보십시오.

다음 페이지에 계속

TV의 리모콘으로 타기기를 조정한다 (계속)

비디오(VTR1, 2, 3)로 조정할 수 있는 버튼

조정	버튼
전원 켜짐/꺼짐	비디오 전원
녹화	● + ►
재생	►
정지	■
빨리감기	▶▶|
되감기	|◀◀
일시정지	■
빨리감기 재생	► + ▶▶|
되감기 재생	► + |◀◀

DVD로 조정할 수 있는 버튼

조정	버튼
전원 켜짐/꺼짐	비디오 전원
재생	►
정지	■
일시정지	■
다음 챕터 꺼냄	▶▶|
이전 챕터 꺼냄	|◀◀
빨리감기 재생	► + ▶▶|
되감기 재생	► + |◀◀
제목표시	제목
기능선택 화면표시	● + 기능선택
기능선택	● + ↑/↓/←/→
기능선택 결정	● + ⊕

MDP로 조정할 수 있는 버튼

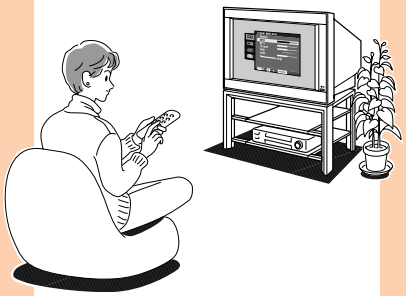
조정	버튼
전원 켜짐/꺼짐	비디오 전원
재생	►
정지	■
일시정지	■
이전 것 꺼냄	▶▶|
다음 것 꺼냄	|◀◀

CD/MD로 조정할 수 있는 버튼

조정	버튼
전원 켜짐/꺼짐	비디오 전원
재생	►
정지	■
일시정지	■
이전 것 꺼냄	▶▶|
다음 것 꺼냄	|◀◀
빨리감기 재생	► + ▶▶|
되감기 재생	► + |◀◀

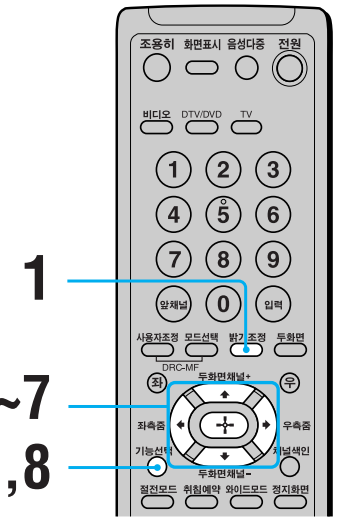
조정한다/ 설정한다

여기에서는, 화면이나 음향등을 조정하는 응용적인 조정을 설명하고 있습니다. 또, TV에 내장되어 있는 타이머를 사용하여 자동적으로 전원을 끄는 등의 조정도 설명하고 있습니다.



보다 세밀하게 화면을 조정한다

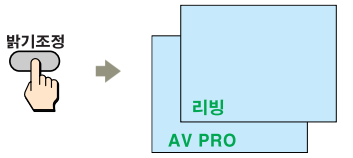
밝기조정 버튼으로「리빙」이나「AV PRO」를 선택하면, 화면을 고르고 세밀하게 조정할 수 있습니다. 화면은, 입력 전환용의 버튼으로 선택할 수 있는 각각의 입력코드마다 설정할 수 있습니다.



1 **밝기조정 버튼을 반복해서 눌러서「리빙」또는「AV PRO」를 선택한다.**

주의

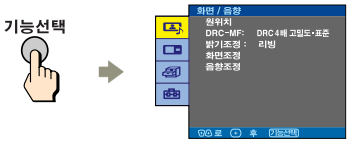
「생생한 화면」과「편안한 화면」(☞13 페이지)으로는, 화면 조정을 할 수 없습니다.



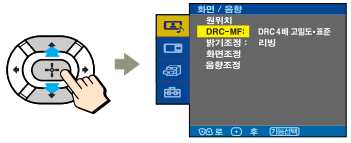
다음 페이지에 계속

보다 세밀하게 화면을 조정한다 (계속)

2 기능선택 버튼을 누른다.

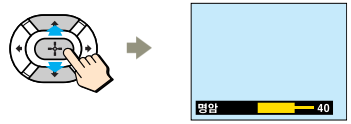


3 ↑/↓로 「(화면/음향)」을 선택하고, ⊕버튼을 누른다.

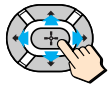


4 ↑/↓로 「화면조정」을 선택하고, ⊕버튼을 누른다.

5 ↑/↓로 조정하고 싶은 항목을 선택하고, ⊕버튼을 누른다.



6 ↑/↓/←/→로 조정하고, ⊕버튼을 누른다.



「리빙」과 「AV PRO」 양쪽에서 조정할 수 있는 항목

항목	↓/←를 누르면	↑/→를 누르면
명암	명암의 차이가 작아진다	명암의 차이가 커진다
밝기	어두워진다	밝아진다
색농도	엷어진다	짙어진다
색조	붉은 빛을 띤다	초록빛을 띤다
선명도	영상의 윤곽이 부드러워진다	영상의 윤곽이 또렷해진다

잠깐 한 마디

조정 바의 옆에 표시된 수치도 조정의 기준이 됩니다.

「AV PRO」에서만 조정할 수 있는 항목

↓을 계속 눌러 「선명도」의 아래까지 이동하면 이하의 항목을 조정할 수 있습니다.

항목	결정	선택가능한 설정
노이즈 감소*	**보통 때는 「켜짐」으로 해 놓아 주십시오.** 「켜짐」: 영상의 거칠기나 색 노이즈를 줄인다. (화면겹침 전파 장애는 경감되지 않는다). 「꺼짐」: 원래의 영상 신호 (처리하고 있지 않는 오리지널 신호) 의 상태를 확인할 때 등에 선택한다. 단, 영상의 거칠기나 색 노이즈가 심해지기도 하고 색번짐이 생길 수도 있다.	켜짐/꺼짐
속도변조주사 (속도 조절)	영상의 윤곽을 강조한다.	강/중/약/꺼짐
색온도	「고」에서 「저」로 가면 붉은 빛을 띤 따뜻한 색조로 된다.	고/중/저
화이트보정	흰색의 선명함을 강조한다.	켜짐/꺼짐
색보정	아름답고 건강한 피부색을 재현한다.	켜짐/꺼짐
블랙보정	검은 색을 강조하여 콘트라스트를 강하게 한다.	강/중/약/꺼짐
감마보정	영상의 명암 부분의 밸런스를 조정한다.	강/중/약/꺼짐

* 「노이즈 감소」는 DTV(HD)/DVD1,2입력 단자에 연결한 기기의 영상일 때는, 조정할 수 없습니다.

7 다른항목을 조정할 때는, 순서5와 6 을 반복한다.

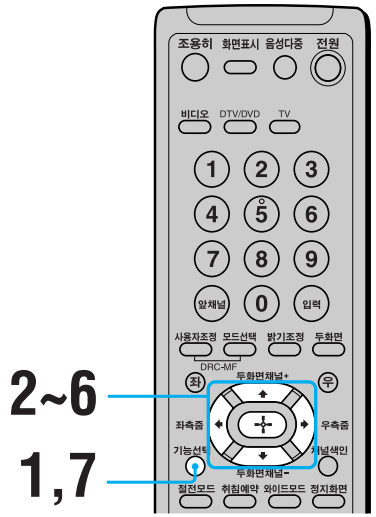
8 기능선택 버튼을 눌러서, 기능선택을 지운다.

구입시의 상태로 되돌리려면

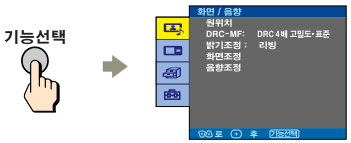
순서5 에서, 「표준」을 선택하고, ⊕ 버튼을 누른다.

음향을 조정한다

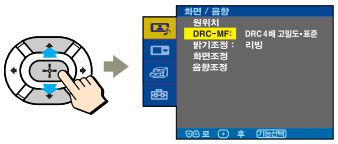
음향은, 입력 전환용의 버튼으로 선택할 수 있는 각각의 입력코드마다 설정할 수 있습니다.



1 기능선택 버튼을 누른다.

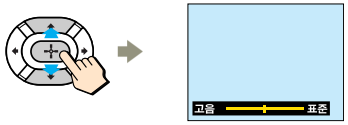


2 ▲/▼로 「(화면/음향)」을 선택하고, ⊕버튼을 누른다.

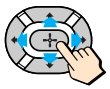


3 ▲/▼로 「음향조정」을 선택하고, ⊕버튼을 누른다.

4 ▲/▼로 조정하고 싶은 항목을 선택하고, ⊕버튼을 누른다.



5 ▲/▼/◀/▶로 조정하여, ⊕버튼을 누른다.



항목	◀/▶를 누르면	▲/▶를 누르면
고음	약해진다	강해진다
저음	약해진다	강해진다
음균형	좌측의 음이 커진다	우측의 음이 커진다
써리운드	꺼짐:보통의 음성으로 돌아간다	켜짐:현장감 있는 음성으로된다

잠깐 한 마디

조정 바의 옆에 표시된 수치도 조정의 기준이 됩니다.

6 다른항목을 조정할 때는, 순서4와 5 를 반복한다

7 기능선택 버튼을 눌러서, 기능선택을 지운다.

구입시의 상태로 되돌리려면

순서 4 에서 「표준」을 선택하고, ⊕버튼을 누른다.

주의

헤드폰의 음향조정은 불가능합니다. 헤드폰으로 듣고 있을 때 음향조정을 하면 헤드폰을 뺐을 때에 나오는 스피커로부터의 소리가 조정됩니다.

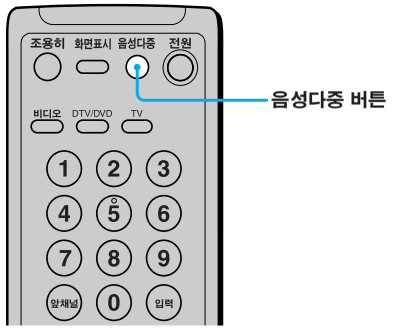
각각의 소리를 잘 들을 수 있게 하려면 (BBE 기능)

소리의 명료감을 높여 신축성 있는 듣기 편한 소리를 내는 것이 「BBE」 기능입니다.
구입시는「켜짐」에 설정되어 있습니다. 「꺼짐」으로 하여 효과를 조금 약하게 할 수도 있습니다만, 음량감이 약해지므로 보통은「켜짐」인 상태로 사용할 것을 권합니다.

1 기능선택 버튼을 눌러,기능선택을 표시한다.
2 ▲/▼로 「(기타기능 설정)」를 선택하고, ⊕버튼을 누른다.
3 ▲/▼로 「BBE」를 선택하고, ⊕버튼을 누른다.
4 ▲/▼로 「켜짐」 또는 「꺼짐」을 선택하고, ⊕버튼을 누른다.
5 기능선택 버튼을 눌러서, 기능선택을 지운다.

음성을 바꾼다 [음성다중 버튼]

2 개국어 방송등 음성다중 방송일 때에 듣고 싶은 음성을 선택할 수 있습니다.



음성다중 버튼을 반복해서 누른다.

누를 때마다 아래표와 같이 바뀝니다.

화면표시	우측의 음성	좌측의 음성
주	주음성	주음성
부	부음성	부음성
주/부	주음성	부음성

예:「주/부」를 선택한 때

잠깐 한 마디

두화면일 때는, 조정화면의 음성이 바뀝니다.

조정한다 / 설정한다

KV-ES34K9H/ES38K9H
RM-970
RM-970

RM-970

음성을 바꾼다 [음성다중 버튼] (계속)

일반 TV의 스테레오 방송에서 잡음이 거슬릴 때는

음성을 모노럴로 하여 채널마다 잡음을 줄일 수 있습니다.

1 **잡음이 많은 채널을 켠 상태에서 기능선택 버튼을 눌러 기능선택을 표시한다.**

2 **♦/♦로 「(설정)」을 선택하고, ⊕버튼을 누른다.**

3 **♦/♦로 「초기설정」을 선택하고, ⊕버튼을 누른다.**

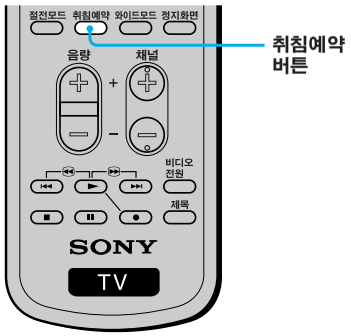
4 **「자동 스테레오」를 선택하고, ⊕버튼을 누른다.**

5 **♦/♦로 「꺼짐」으로 놓고, ⊕버튼을 누른다.**

6 **기능선택 버튼을 눌러서, 기능선택을 지운다.**

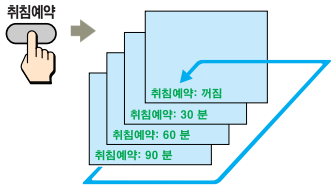
자동으로 전원을 끈다 [취침예약 버튼]

TV를 켠 채 잠들어도, 설정한 시간 (30분, 60분 또는 90분) 이 지나면, 자동적으로 전원이 꺼집니다.



취침예약 버튼을 반복해서 누른다.

누를 때마다, 다음과 같이 시간이 바뀝니다.



취침예약을 도중에 취소하려면

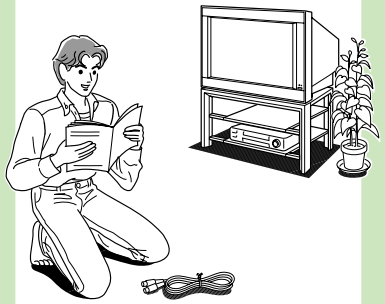
취침예약 버튼을 반복해서 눌러, 「취침예약:꺼짐」을 선택한다.

잠깐 한 마디

- 취침예약이 작동하고 있을 때에, 취침예약 버튼을 누르면, 전원이 꺼질 때 까지의 남은 시간 (예: 「취침예약: 17분 후」) 이 표시되고, 수초후에 꺼집니다.
- 전원을 다시 켜면, 「취침예약:꺼짐」 으로 돌아갑니다.
- 기능선택 화면에서도 조정할 수 있습니다. 「(기타기능 설정)」메뉴로 「취침예약」를 선택하고, 시간을 설정하십시오.

TV의 접속과 준비

여기에서는, TV 안테나의 연결법 및 채널 설정이 설명되어 있습니다. 순서 1~3 (☞34~40 페이지) 까지 끝내면, TV를 볼 수 있습니다. 다른 기기를 연결하여 사용하실 때는, 「타기기와의 접속」(☞41~47 페이지) 을 보아 주십시오.



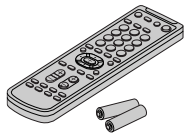
TV를 설치할 때는, 반드시, 「지자기에 의한 화면의 경사나 상하 위치를 조정한다」(☞36 페이지) 를, 실행해 주십시오.

지자기등의 영향으로, 화면이 기울어지거나 상하 위치가 어긋나거나, 색 얼룩등이 발생할 수 있습니다.

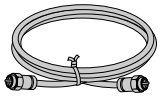
부속품을 확인한다

상자를 열어서, 부속품이 다 있는지를 확인하십시오.

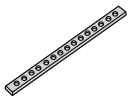
리모콘 (1개) 과 단3형 건전지 (2개)



안테나 접속 케이블 (1개)



고정 벨트 (1개)



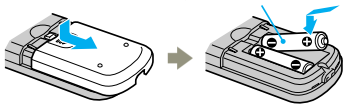
나사 (2개) 3.8×20mm

크램프 (2개)

사용설명서
안전을 위해
안전 점검의 안내
보증서
(각1부)

리모콘에 건전지를 넣으려면

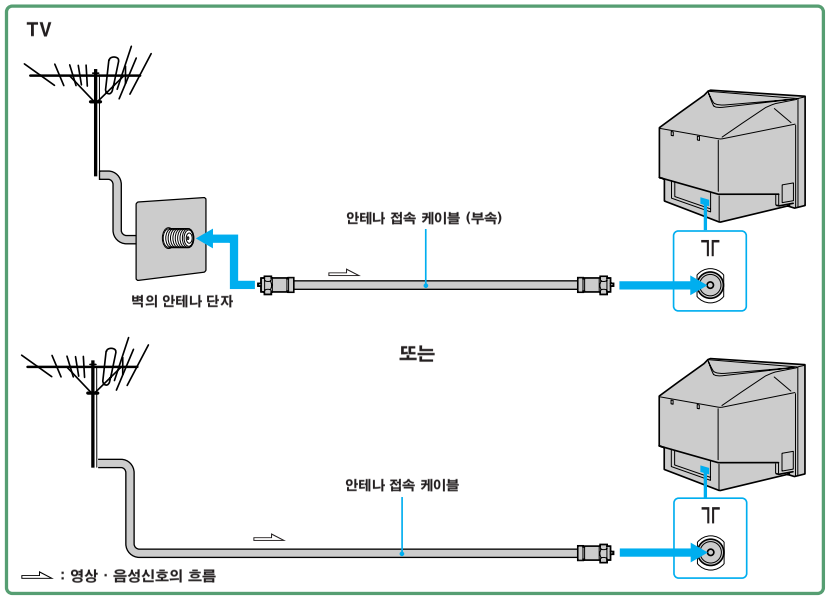
반드시 일러스트와 같이 ⊖극 쪽에서 건전지를 넣으십시오. 무리하게 넣거나 반대쪽에 넣거나 하면, 쇼트의 원인이 되어, 열이 발생할 수 있습니다.

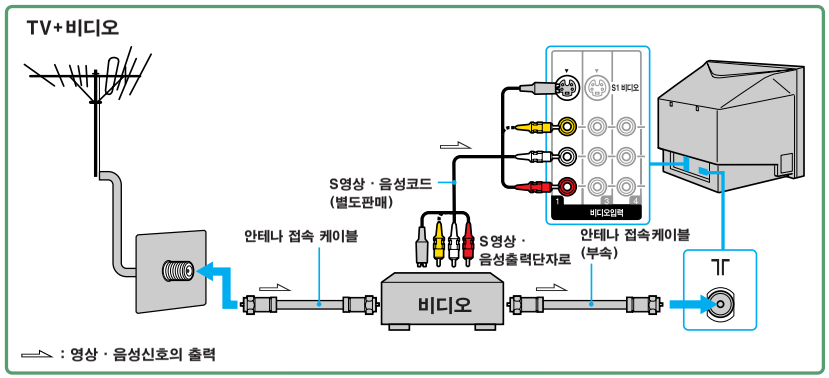


순서 1:
TV안테나나 케이블 TV를 연결한다

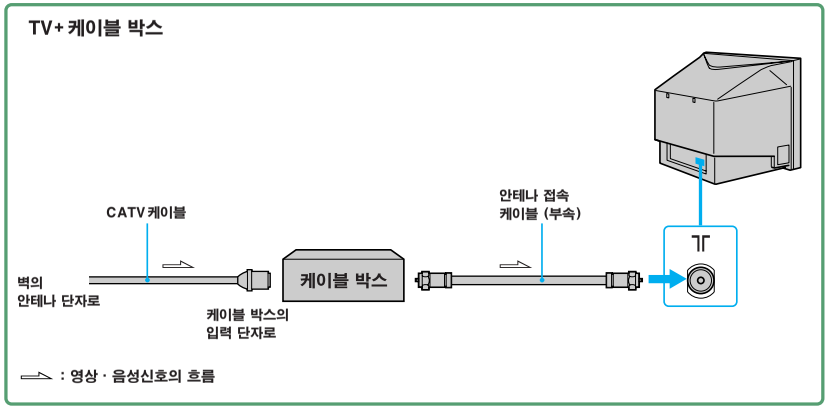
TV안테나를 연결한다

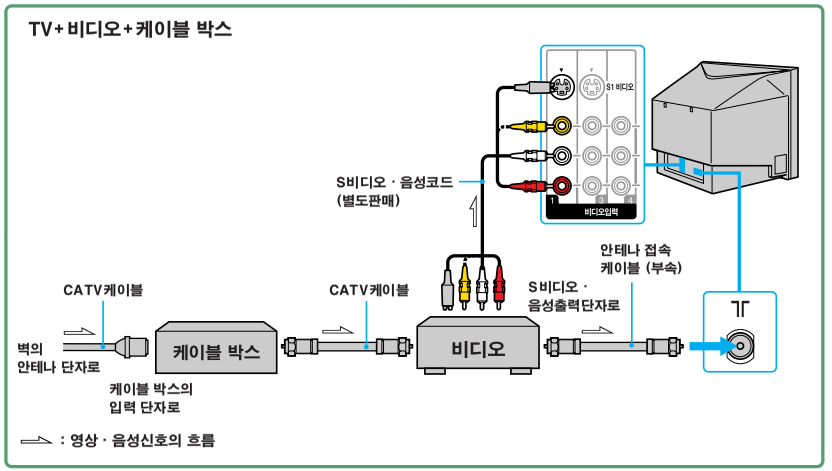
TV안테나의 연결은, 접속하는 기기에 따라 다릅니다.
접속할 비디오등의 사용설명서도 함께 보십시오.
TV의 전원코드는 모든 접속이 끝난 후에 연결하십시오.





케이블 TV를 연결한다





순서 2: 지자기에 의한 화면의 경사나 상하 위치를 조정한다

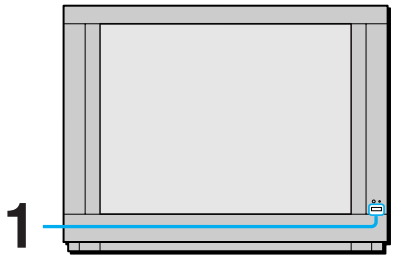
처음에 TV의 전원을 켜면, 「경사조정」의 기능 선택이 표시되고, 지자기등 자기장에 의하여 발생하는 화면의 경사나 화면 상하위치의 어긋남을 바로 잡을 수 있습니다. 이러한 증상은, TV의 고장이 아닙니다.

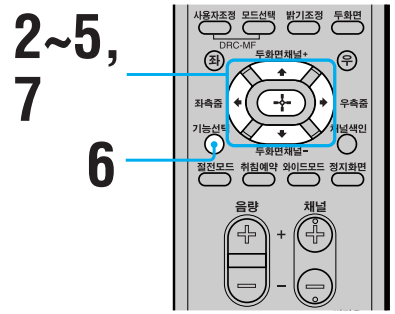
구입시는, TV안테나를 연결하고 나서, 반드시 화면의 경사나 상하 위치를 바로잡으십시오.

이사 후나, TV의 설치 장소를 바꾸었을 때도, 반드시 기능선택 화면에서 교정하여 바로 잡으십시오.

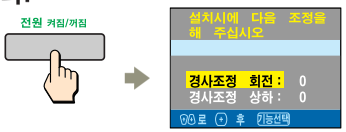
조정하기 전에 확인하십시오.

- 외부의 스피커 (방자형도 포함) 는, TV로부터 30cm 이상 떼고 두십시오. 스피커의 자기에 의해, 잘 조정되지 않거나, 스피커로부터 잡음이 나올 수 있기 때문입니다.
- 강한 자기장 (고압 전선이나 전철, 철근콘크리트, 철제 기자재의 근처등) 에서는, 잘 조정되지 않을 수 있습니다. 이 때는, 자기장의 영향을 받지 않는 장소에 설치하거나, A/S센터에 상담해 주십시오.





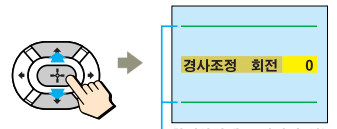
1 TV본체의 전원 스위치를 누른다.



화면이 정상적으로 나오고 있을 때는

조정할 필요가 없습니다. 순서 6이후로 가십시오.

2 ▲/▼로 「경사조정 회전」을 선택, ⊕버튼을 누른다.



화면상하에 표시되어 있는 바를 기준으로 하여, 화면의 경사를 조정하십시오.

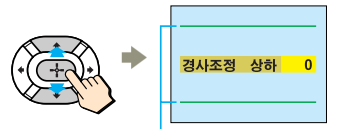
3 ▲/▼로 조정하고, ⊕버튼을 누른다.

화면상하의 바가 가능한한 수평이 되도록 합니다. 수치는 -7~+7의 범위에서 바뀝니다.

주의

조정할 때는, 한번에 크게 회전시키지 말고, 1단계씩 수치를 바꾸십시오.
한번 크게 회전시켜 수평을 넘어버리면, 조정전과 반대로 기울어져, 색번짐등의 원인이 될 수 있습니다.

4 ▲/▼로 「경사조정 상하」를 선택, ⊕버튼을 누른다.



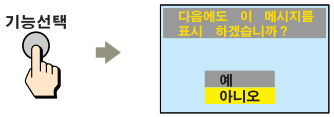
화면상하에 표시되어 있는 바를 기준으로 하여, 화면의 상하위치를 조정하십시오.

5 ▲/▼로 조정하고, ⊕버튼을 누른다.

화면의 상하의 바가, 화면의 상하의 가장 자리에서부터 가능한 한 균등하게 되도록, 위치를 조정합니다. 수치는 -5~+5 의 범위에서 변합니다.

6 기능선택 버튼을 누른다.

전원코드를 뺐다 꽂거나, 본체의 전원 버튼을 껐다 켰다할 때마다, 「경사조정」 화면을 표시시킬지 아닐지를 확인하는 메시지가 나옵니다.



7 「아니오」가 선택되어 있는지를 확인하고, ⊕버튼을 누른다.

TV의 설치 장소를 바꾸었을 때는

화면의 경사나 화면 상하위치의 어긋남을 바로 잡으십시오.

1 기능선택 버튼을 눌러서, 기능선택을 표시한다.

2 ▲/▼로 「(설정)」을 선택하고, ⊕버튼을 누른다.

3 「화면경사 조정」을 선택하고, ⊕버튼을 누른다.

4 ▲/▼로 「경사조정 회전」 또는 「경사조정 상하」를 선택하고, 조정한다.

5 조정 종료후, 기능선택 버튼을 눌러서, 기능선택을 지운다.

주의

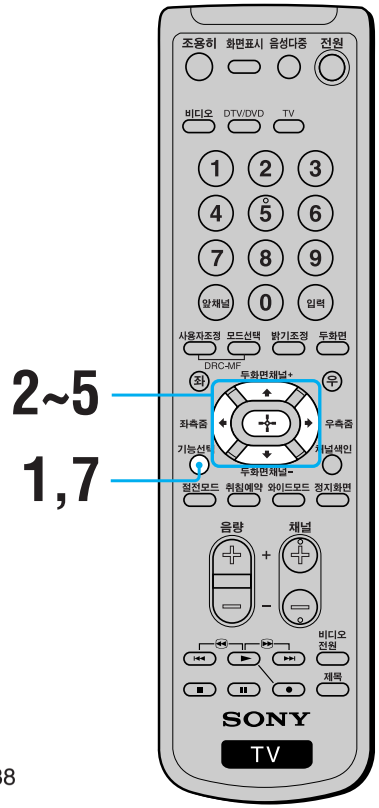
조정이 잘 안 될 때에는, 일단TV의 전원을 끄고 설치 장소를 바꾸든가, TV 방향을 바꾸고 나서, 다시 한 번 경사조정의 순서를 밟으십시오.
전원을 끄지 않고 이동하거나, 방향을 바꾸거나 하면, 조정이 잘 되지 않거나, 색 얼룩을 일으키는 원인이 됩니다.
색 얼룩이 생겼을 때는, 이동하거나, 방향을 바꾼 후에, 일단 전원을 끄고 30 분 이상 기다린 후 전원을 넣으십시오. 또는, 전원을 넣은 채로 30 분 이상 기다린 후, 일단 전원을 끄고, 다시 한 번, 전원을 넣고 바로 잡으십시오.

순서 3:
채널을 설정한다

TV 방송은, 자동으로도 수동으로도 수신 설정이 가능합니다.

자동 설정한다

수신할 수 있는 TV 방송을, 리모콘의 채널숫자 버튼에 자동으로 설정합니다. 방송이 있는 시간대에 하십시오.
자동 설정한, 방송이 없는 채널을 건너 뛸 때는, ☞40 페이지를 보십시오.



1 기능선택 버튼을 누른다.

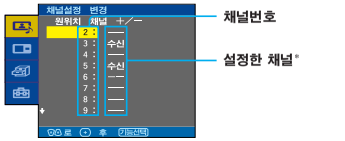
2 ♠/♣로 「(설정)」을 선택하고, ⊕버튼을 누른다.

3 ♠/♣로 「TV 설정」을 선택하고, ⊕버튼을 누른다.

4 「자동채널 설정」이 선택되어 있는지를 확인하고, ⊕버튼을 누른다.
선택되어 있지 않을 때는, ♠/♣로 선택하고, ⊕버튼을 누른다.

5 「자동채널 설정」이 「켜짐」으로 되어 있는지를 확인하고, ⊕버튼을 누른다.
「꺼짐」으로 되어 있을 때는, ♠/♣로 「켜짐」을 선택하고, ⊕버튼을 누른다.

「자동채널 설정 실행 중 입니다」라고 표시되며, 자동으로 설정이 시작됩니다.
설정이 끝나면, 아래의 메뉴로 변합니다.



* 지역에 따라서는, 지금까지 보시고 있던 채널 번호와 다른 경우가 있습니다.

6 설정된 채널을 확인한다
방송이 없는 채널을 건너뛰고 싶을 때는
☞40 페이지를 보십시오.

7 기능선택 버튼을 눌러서, 기능선택을 지운다.

채널 설정을 도중에 중지하려면

순서 5 로 「자동채널 설정 실행 중 입니다」의 메시지가 나오는 사이에, 리모콘 기능선택 버튼을 누른다.

케이블 TV 를 보려면

케이블TV 방송 회사와의 수신 계약이 필요합니다. 또한, 케이블TV를 수신할 수 없는 지역도 있습니다. 이 TV로는, 1~125 까지의 케이블 TV 채널을 수신할 수 있습니다.
자세한 내용은, 근처의 케이블TV 방송 회사에 문의하십시오.

1 기능선택 버튼을 눌러서, 기능선택을 표시한다.
2 ♠/♣로 「(설정)」을 선택하고, ⊕버튼을 누른다.
3 ♠/♣로 「TV 설정」을 선택하고, ⊕버튼을 누른다.
4 ♠/♣로 「밴드」를 선택하고, ⊕버튼을 누른다.
5 ♠/♣로 「케이블 TV」를 선택하고, ⊕버튼을 누른다.
6 ☞38 페이지의 조작순서4이하를 행한다.

주의
케이블 TV와 UHF 방송을 동시에 수신하거나, 채널을 설정하거나 하는 것은 불가능합니다.

다음 페이지에 계속

KV-ES34K9H/ES38K9H
RM-970
RM-970

순서 3:
채널을 설정한다 (계속)

수동 설정한다

채널+/−버튼으로 채널을 선택할 때나, 채널을 일람표시(☞21 페이지)할 때, 방송이 없는 채널을 건너뛰도록(선택하지 않는다)설정할 수 있습니다.

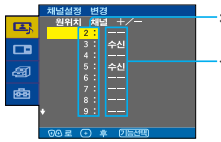
방송이 없는 채널을 건너뛰려면

1 기능선택 버튼을 눌러, 기능선택을 표시한다.

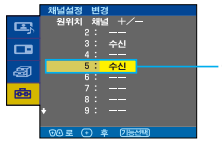
2 ♦/♦로 「(설정)」을 선택하고, ⊕버튼을 누른다.

3 ♦/♦로 「TV 설정」을 선택하고, ⊕버튼을 누른다.

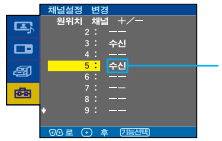
4 ♦/♦로 「채널설정 변경」을 선택하고, ⊕버튼을 누른다.



5 ♦/♦로 건너뛰고 싶은 채널을 선택하고, ⊕버튼을 누른다.



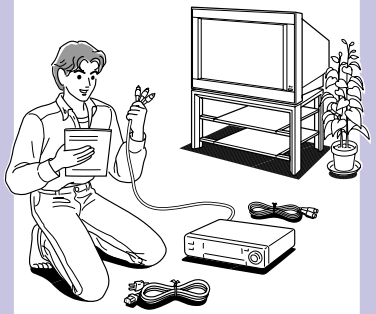
6 ♦/♦로 「수신」을 「--」로 바꾸고, ⊕버튼을 누른다.



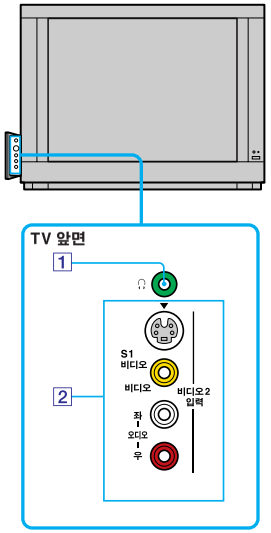
7 기능선택 버튼을 눌러서, 기능선택을 지운다.

타기기와의 접속

여기에서는, 접속 단자의 명칭과 기능 및 비디오 데크등 다른 기기의 연결방법에 관하여 설명하고 있습니다.
TV를 보기 위한 접속과 준비에 관하여는,「TV의 접속과 준비」(☞33 ~40 페이지) 를 보십시오.



접속 단자의 명칭과 기능



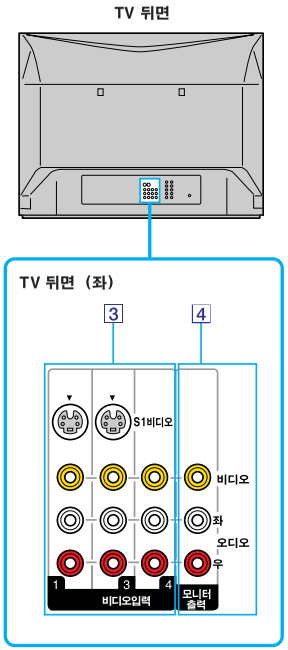
☞의 페이지에 상세한 설명이 있습니다.

1 헤드폰 단자 (☞20 페이지)
헤드폰을 연결합니다.

2 비디오2입력 단자 (S1비디오/비디오/오디오) (☞45 페이지)
비디오 카메라 레코더나 비디오 게임등의 비디오 출력 단자에 연결합니다.

다음 페이지에 계속

접속 단자의 명칭과 기능 (계속)



☞의 페이지에 상세한 설명이 있습니다.

3 비디오 1, 3, 4* 입력 단자 (S1비디오/비디오/오디오) (☞43~46 페이지)

비디오 데크나 레이저 디스크 플레이어, DVD플레이어등의 비디오 기기의 비디오 출력 단자에 연결합니다.

* 비디오4입력단자에는, S1비디오 단자는 없습니다.

4 모니터 출력단자(비디오/오디오) (☞43, 47 페이지)

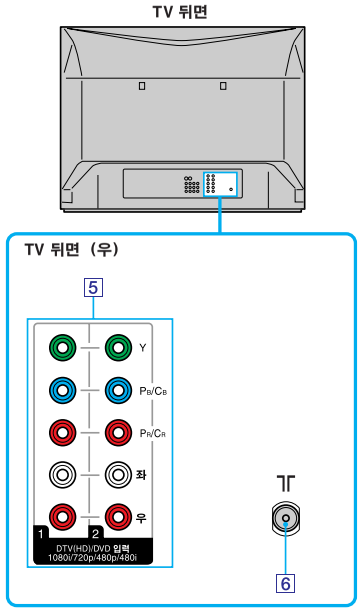
비디오 데크등의 비디오 입력단자에 연결합니다.
VHF/UHF, 비디오 1~4입력 신호를 출력합니다.

주의

DTV(HD)/DVD입력단자에 연결된 기기의 영상신호는 출력되지 않습니다.

다화면일 때의 주의

- 두화면 (☞16 페이지) 일 때는, 좌측 화면의 신호를 출력합니다.
- 채널색인 (☞21 페이지) 일 때는, 주화면의 신호를 출력합니다.



☞의 페이지에 상세한 설명이 있습니다.

5 DTV(HD)/DVD1, 2 입력 단자 (☞45 페이지)

Y PB/CB PR/CR 영상 입력 단자

DVD 플레이어의 콤포넌트 비디오 출력 단자 (Y/CB/CR 또는, Y/B-Y/R-Y, Y/PB/PR), 영상 출력 단자에 연결합니다.

음성 입력 단자

DVD 플레이어의 음성 출력단자에 연결합니다.

6 TV안테나 단자 (☞34~35 페이지)

TV용의 안테나 접속 케이블이나 케이블 TV의 케이블을 연결합니다.

DTV(HD)/DVD1, 2입력단자에 연결한 기기의 영상의 색조에 관하여 (칼라매트릭스)

DTV(HD)/DVD1, 2입력단자에 연결한 DVD플레이어등의 출력이 525p(480p), 1125i(1080i), 750p(720p)의 각 신호 포멧일 경우, 영상을 자연스런 색조로 설정할 수 있습니다.
보통 때는 구입시의 설정 상태로 사용하십시오. 색조가 부자연스러워졌을 때는, 다시 설정해 주십시오.
「(기타기능 선택)」 메뉴에서 「칼라 매트릭스」를 선택하여, DTV(HD)/DVD1, 2 각입력 단자마다, 480p, 1080i, 720p의 신호포멧을 선택, 「Y/CB/CR」 또는 「Y/PB/PR」 중, 자연스러운 색조 쪽으로 설정해 주십시오.
구입시는, 「480p」는 「Y/CB/CR」, 「720p」는 「Y/PB/PR」, 「1080i」에서는 「Y/PB/PR」로 설정되어 있습니다.

비디오를 연결한다

비디오 데크, 비디오 카메라, 또는 레이저 디스크 플레이어등을 연결합니다. 각각의 기기 사용설명서도 함께 보십시오.

S1 영상 단자와 비디오 단자의 어느쪽에 연결하는지 모를 때는

보다 좋은 화면으로 보시기 위해, S1영상단자에 연결하십시오*.
연결한 기기에 S영상 단자가 없는 경우는, 영상 단자에 연결합니다.

* 레이저 디스크 플레이어일 때는 비디오 단자에 연결하십시오. 3차원 Y/C 분리 회로 탑재의 레이저 디스크 플레이어일 때는, 접속에 의한 화질의 차이는 거의 생기지 않습니다. 재생 모드에는 표준을 선택하고, 디지털로 재생하지 마십시오. 자세한 것은, 레이저 디스크 플레이어의 사용설명서를 보십시오.

TV의 비디오 1~3 입력의 S1 비디오 입력 단자와 비디오 입력 단자의 양쪽에 연결한 때는

비디오의 영상 신호를 어느쪽의 단자로 입력할 것인지를, 비디오 입력때마다 기능선택 화면에서 설정할 수 있습니다. 구입시는, S1 비디오 입력 단자로 입력된 화상이 나옵니다.

1 비디오 버튼을 반복해서 눌러서, 전환하고 싶은 비디오 입력을 선택한다.

2 기능선택 버튼을 눌러서, 기능선택을 표시한다.

3 ↑/↓로 「(기타기능 설정)」을 선택하고, ⊕버튼을 누른다.

4 ↑/↓로 「S 영상」을 선택하고, ⊕버튼을 누른다.

5 S1 비디오 입력 단자로 입력된 화상을 볼 때는

↑/↓로 「켜짐」을 선택하고, ⊕버튼을 누른다.

비디오 입력 단자로 입력된 화상을 볼 때는

↑/↓로 「꺼짐」을 선택하고, ⊕버튼을 누른다.

6 기능선택 버튼을 눌러서, 기능선택을 지운다.

비디오1입력 신호를 모니터 출력단자로부터 출력할 때는

구입시는, 비디오1 입력단자에 연결한 기기의 신호는, 모니터 출력단자로부터 출력되지 않도록 되어 있습니다.
그 때문에, 모니터 출력단자에 연결된 비디오 기기등으로, 비디오1입력의 영상이나 음성을 즐길 때등 (☞47 페이지) 은, 아래의 설정을 해 주십시오. 비디오1입력단자에 연결된 기기의 영상 및 음성이 모니터 출력단자로부터 출력됩니다.

1 기능선택 버튼을 눌러서, 기능선택을 표시한다.

2 ↑/↓로 「(설정)」을 선택하고, ⊕버튼을 누른다.

3 ↑/↓로 「초기설정」을 선택하고, ⊕버튼을 누른다.

4 ↑/↓로 「비디오 출력 설정」을 선택하고, ⊕버튼을 누른다.

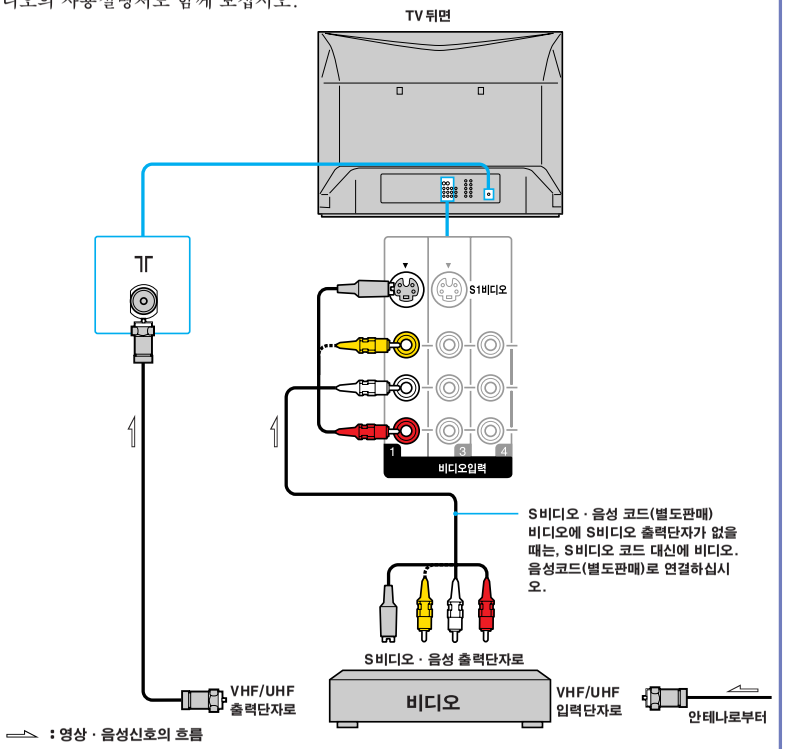
5 ↑/↓로 「비디오1있슴」을 선택하고, ⊕버튼을 누른다.

6 기능선택 버튼을 눌러서, 기능선택을 지운다.

다음 페이지에 계속

비디오를 연결한다 (계속)

비디오 기기의 재생녹화를 보기위한 접속입니다.
비디오의 사용설명서도 함께 보십시오.



비디오를 보려면

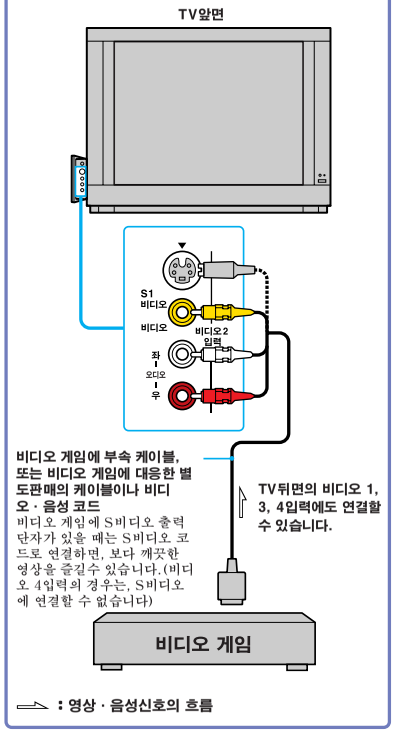
비디오 버튼을 눌러, 비디오를 연결한 비디오 1 입력 (「비디오 1」) 을 표시시킨다.
자세한 것은 ☞24 페이지를 보십시오.

주의

TV를 모니터로 사용하여, 비디오등으로 편집할 때는, 재생기를 비디오 1 입력을 제외한 비디오 2, 3 입력단자, 또는 비디오 4 입력단자에 연결하십시오. 구입시는, 비디오 1 입력단자에 연결된 기기의 신호는 비디오 출력단자로부터 출력되지 않도록 설정되어 있기 때문입니다 (☞43 페이지).

비디오 카메라 레코더나 비디오 게임등을 연결한다

TV앞면의 비디오 2 입력단자에 비디오 게임을 연결합니다. 비디오 게임의 사용설명서도 함께 읽어 보십시오.


TV앞면
S1 비디오
비디오
비디오2 입력
좌
오디오
우
비디오 게임에 부속 케이블, 또는 비디오 게임에 대응한 별도판매의 케이블이나 비디오 · 음성 코드
비디오 게임에 S비디오 출력단자가 있을 때는 S비디오 코드로 연결하면, 보다 깨끗한 영상을 즐길수 있습니다. (비디오 4입력의 경우는, S비디오에 연결할 수 없습니다)
TV뒤면의 비디오 1, 3, 4입력에도 연결할 수 있습니다.
비디오 게임
: 영상 · 음성신호의 흐름

비디오 게임을 하려면

비디오 버튼을 반복해서 눌러, 비디오 게임을 연결한 비디오 입력 (「비디오 1」 ~ 「비디오 4」 의 어느 한쪽) 을 표시시킨다.
자세한 것은 ☞24 페이지를 보십시오.

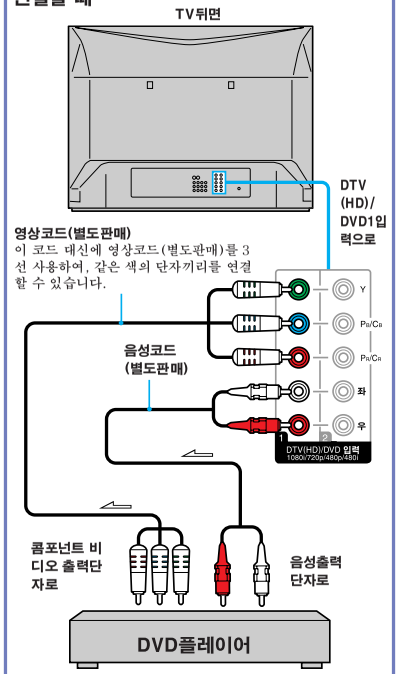
주의

전자적인 라이플이나 총등으로 표적을 만들어 즐기는 슈팅게임등은, TV의 화면을 사용할 수 없을 경우가 있습니다. 자세한 것은 각 소프트 웨어의 사용설명서를 보십시오.

DVD 플레이어를 연결한다

콤포넌트 비디오 출력 단자가 있는 DVD 플레이어는 TV의 DTV(HD)/DVD 입력 단자에 연결하면 보다 고화질의 화상을 즐길 수 있습니다. DVD 플레이어의 사용설명서도 함께 읽어 보십시오.

콤포넌트 영상(DTV(HD)/DVD)케이블로 연결할 때



DVD플레이어의 콤포넌트 비디오 영상 단자는, 메이커에 따라 색이나 명칭이 다릅니다. 오른쪽 표와 같이 연결하십시오

DVD플레이어의 영상단자	TV의 영상단자
Y단자	Y단자
CB, B-Y, PB단자	PB/CB단자
CR, R-Y, PR단자	PR/CR단자

다음 페이지에 계속

DVD 플레이어를 연결한다 (계속)

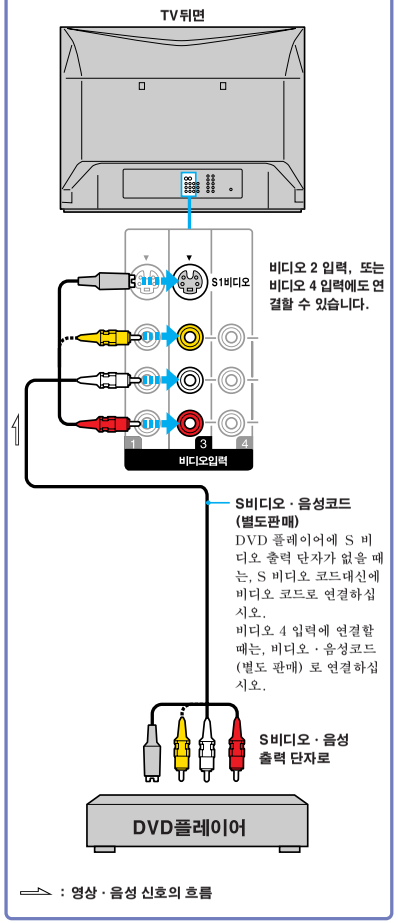
DVD 를 보려면

콤포넌트 비디오 출력 단자가 있는 DVD 플레이어의 경우는

DTV/DVD 버튼을 반복해서 눌러, DVD 플레이어를 연결한 DTV(HD)/DVD 입력(「DTV/DVD1」,「DTV/DVD2」의 한 쪽)을 표시시킨다.

자세한 것은, ☞24 페이지를 보십시오.

콤포넌트 비디오 출력 단자가 없는DVD 플레이어의 경우는


TV뒤면
S1비디오
비디오 2 입력, 또는 비디오 4 입력에도 연결할 수 있습니다.
1
3
4
비디오입력
S비디오 · 음성코드 (별도판매)
DVD 플레이어에 S 비디오 출력 단자가 없을 때는, S 비디오 코드대신에 비디오 코드로 연결하십시오.
비디오 4 입력에 연결할 때는, 비디오 · 음성코드 (별도 판매) 로 연결하십시오.
S비디오 · 음성 출력 단자로
DVD플레이어
: 영상 · 음성 신호의 흐름

DVD 를 보려면

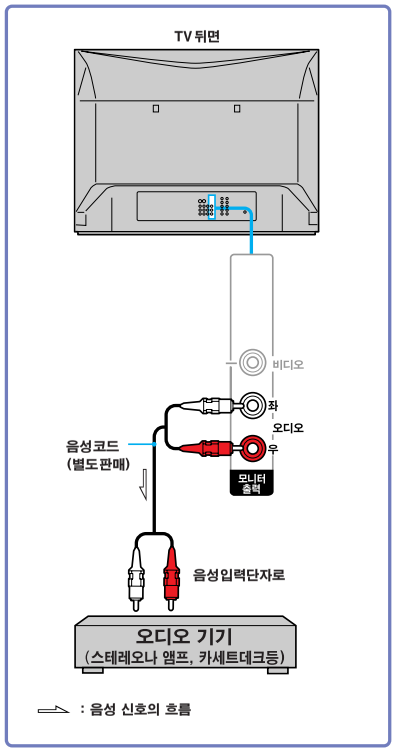
콤포넌트 비디오 출력 단자가 없는 DVD 플레이어의 경우는

비디오 버튼을 반복해서 눌러, DVD 플레이어를 연결한 비디오 입력(「비디오 1」~「비디오 4」의 어느 한쪽)을 표시시킨다.

자세한 것은, ☞24 페이지를 보십시오.

오디오 기기를 연결한다

연결한 오디오 기기로 TV의 음량을 조정하거나, 연결한 스피커로 TV의 음성을 들을 수 있습니다. 오디오 기기의 사용설명서도 함께 보십시오.



잠깐 한 마디

- DTV(HD)/DVD 입력과 AV 멀티 입력에 연결한 기기의 음성 신호도 출력할 수 있습니다. 단, 영상 신호는 출력되지 않습니다.
- 구입시는 비디오 1 입력에 연결한 기기의 신호는 출력되지 않도록 설정되어 있습니다. 비디오 1입력에 연결한 기기의 영상 및 음성을 출력할 때는,「(설정)」메뉴에서「초기설정」을 선택,「비디오 출력 설정」을「비디오1있음」으로 하십시오(☞43 페이지).

주의

TV의 음량이나 음향의 설정을 바꾸어도, 오디오 기기의 음량이나 음향의 설정은 변하지 않습니다.

기타

여기에서는, TV가 정상적으로 작동하지 않을 때에 해결하는 방법이나, 손질의 방법에 관하여 설명하고 있습니다.
또, 각 부분의 명칭이나 색인을 이용하여, 알고자 하는 정보를 찾을 수도 있습니다.

고장이라고 생각되면

수리를 보내기 전에, 한번더, 점검을 해 주십시오. 그래도, 정상적으로 작동하지 않을 때는, A/S센터(02-3273-2000)에 상담해 주십시오. 상담할때는, 다음 사항을 알려 주십시오.

TV본체의 형명 :

KV-ES34K9H

KV-ES38K9H

리모콘의 형명 :

RM-970

고장의 상황 : 가능한 한 상세하게

구입년월일 :

자기 진단 표시 – 화면이 꺼지고, STANDBY/스테레오 램프가 점멸하면

이 TV에는 자기 진단 표시 기능이 붙어 있습니다. 이것은 TV에 이상이 생겼을 때에, STANDBY/스테레오 램프의 점멸 및 그 회수로 TV의 상태를 알려, 보다 순조로운 서비스 대응을 위한 기능입니다. STANDBY/스테레오 램프가 빨갛게 점멸하면, 아래의 순서에 따라, A/S센터에 상담해 주십시오. 상담 내용에 따라서는, 수리가 필요한 경우가 있습니다.

1 STANDBY/스테레오 램프의 점멸 회수를 헤아리십시오. 3초마다 점멸합니다.
예를 들면, 2회 점멸 → 3초있다가 →2회 점멸…이 경우의 점멸 회수는 2회입니다.
2 TV 본체의 전원스위치로 전원을 끄고, 전원 컨센트를 빼고 나서, A/S센터에 점멸 회수를 알리십시오.

TV의 증상과 대처의 방법

증상		대처의 방법
화상이 안 나타난다	모든 채널이 안 나온다.	• 전원코드를 단단히 연결하십시오. • TV 본체의 전원을 넣으십시오. • 안테나 선을 단단히 연결하십시오.
	특정한 채널만 안 나온다.	• 채널을 맞추십시오 (☞38 페이지).
	TV의 전원이 갑자기 꺼졌다/어느 사이엔가 꺼져 있다 (스탠바이 상태로 되었다).	• TV 끄는 것을 잊지 않도록 하기 위해, 방송 종료후 (두화면에서는 조정 화면, 정지화면으로는 좌측 화면, 채널색인 화면에서는 주 화면의 방송 종료후), 또는방송이 없는 채널을 수신하고 있는 상태에서 약 10 분이 지나면, 「신호 없을 때 자동 꺼짐」이라고 표시되며, 자동적으로 스탠바이 상태로 됩니다. • 취침예약을 설정해 놓지 않았습니까? (☞32 페이지)
	연결한 기기의 화상이 안 나온다.	• 접속코드를 단단히 연결하십시오. • 리모콘의 입력 전환용의 버튼을 눌러 주십시오 (☞24 페이지). • S비디오 입력의 경우는, 「(기타기능 설정)」 메뉴로 「S 영상」을 「켜짐」으로 하십시오 (☞43 페이지).
깨끗하게 나오지 않는다	화상이 이중, 삼중으로 된다.	• 안테나 선을 단단히 연결하십시오. • 안테나의 위치, 방향, 각도를 조정하십시오.
	눈이 내리는 것 같은 화면, 엷은 화면, 바람이 불면 어른거린다.	• 안테나가 바람에 깨졌거나 휘어져 있지 않은지 확인하십시오. • 안테나의 수명을 확인해 주십시오 (통상 3 ~5년, 해변에서는 1~2년).
	반점이나 점 모양이 어른거린다.	• 헤어드라이기, 자동차, 오토바이등으로부터의 잡음 전파 간섭을 받고 있습니다. 안테나는 가능한 한 도로에서 떨어진 곳에 설치하십시오.
	착색이 안 된다. 색이 이상하다, 화면이 어둡다.	• 밝기조정버튼을 눌러,화면 설정을 선택해 주십시오 (☞13 페이지). • 「(화면/음향)」 메뉴로, 화면을 조정하십시오. • 「절전모드:감소」일 때는, 화면이 어두워집니다 (☞14 페이지).
	화면이 눈부시다.	• 밝기조정버튼을 눌러,화면 설정을 선택해 주십시오 (☞13 페이지).
	화면의 일부에 색 얼룩이 생긴다.	• TV를 아파트의 벽,금속 스탠드, 비디오 데크 또는 스피커등으로부터 떨어뜨려 주십시오. • TV를 보다가, TV 방향을 바꾸면 색 얼룩이 발생할 수가 있습니다. 이 때는, 지자기의 영향을 받고 있습니다. 한 번 전원을 끄고, 약 30분후에 TV를 볼 방향으로 놓고나서 전원을 넣으면, 자동 소자 회로가 작동, 지자기의 영향이 경감됩니다.
	화면이 기울어져 있다, 위 아래로 쏠려 있다.	• 「(설정)」 메뉴로 「화면경사 조정」을 선택하고, 「경사조정 회전」과 「경사조정 상하」를 조정하십시오 (☞36 페이지).
	줄무늬의 노이즈가 많다.	• 부속 안테나 접속 케이블을 사용하여, TV 안테나를 연결하고 있는지를 확인하십시오. • 안테나 선은 다른 전원코드나 접속 케이블에서 떼어 주십시오.
	비디오의 재생/녹화시에 세로줄무늬의 노이즈가 생긴다.	• 비디오헤드가 영향을 주고 있습니다. 가능한한 비디오를 TV로부터 떼어 주십시오 (☞43 페이지).

다음 페이지에 계속

고장이라고 생각되면 (계속)

증상		대처의 방법
소리가 나오지 않는다 / 잡음이 많다	**화면은 나오지만, 소리가 나오지 않는다.**	• 음량이 맨 끝에 낮추어져 있지 않은지 확인하십시오. • 화면에 「조용히」의 표시가 나와 있을 때는, 리모콘의 조용히 버튼이나 음량 + 버튼을 눌러 표시를 소거해 주십시오. • 헤드폰을 빼십시오.
	잡음이 많다.	• 부속 안테나 접속 케이블을 사용하여, TV 안테나를 연결하고 있는지를 확인하십시오. • 안테나 선은 다른 전원코드나 접속 케이블에서 떼어 주십시오. • 「(설정)」 메뉴로 「초기설정」을 선택하고, 「자동 스테레오」를 「꺼짐」으로 해 주십시오 (☞35 페이지).
기능선택을 선택할 수 없다 / 표시가 사라지지 않는다	**기능선택으로 선택할 수 없는 항목이 있다.**	• 검게 표시되는 항목은 선택할 수 없습니다 (보고 있는 화면의 종류나 기능선택의 설정에 의해, 선택할 수 없도록 제약되어 있습니다).
화면이 바뀐다 / 늘려 보인다	**「고밀도 와이드」가 「자동」일 때에 화면의 사이즈가 멋대로 바뀐다.**	• 가로세로비율의 신호 (S1 방식등) 가 들어간 영상은, 자동 판별하여 세로방향을 압축한 가로세로비율16:9의 와이드 화면으로 만들기 때문입니다 (☞15 페이지).
	「고밀도 와이드」가 「켜짐」일 때에 화면이 늘려 보인다.	• 가로세로비율4:3의 영상에서 「고밀도 와이드」를 「켜짐」으로 하면, 세로방향으로 압축되어부자연스럽게보일수있습니다. 「(기타기능 설정)」 메뉴에서 「고밀도 와 이드」를 「자동」으로 해 주십시오 (☞13 페이지). • HD디지털방송이나 상하에 검은 띠가 들어가 있는 가로길이의 영화등의 와이드 영상일 때는, 가로세로비율의 신호가 포함되어 있지 않기 때문에, 원래부터 들어가 있는 검은 띠 부분까지 세로방향으로 압축되어, 보다 눌린 영상이 되기 때문입니 다. 「(기타기능 설정)」메뉴로 「고밀도 와 이드」를 「자동」 또는 「꺼짐」으로 해 주십시오 (☞15 페이지).
TV에서 이상한 소리가 난다	**「피싯」하는 삐걱거리는 소리가 난다.**	• 주위와의 온도 차이로 캐비넷이 신축하여, 「피싯」 하는 소리가 날 수 있습니다만, TV에 영향은 없습니다.
	전원을 넣었을 때에 부웅하는 소리가 난다.	• 지자기등의 영향을 제거하는 자동 소자 기능의 동작음입니다. 소니의 TV는, 트리니트론관을 사용하고 있기 때문에, 소리가 크게 느껴질 수 있습니다만, 이상은 아닙니다. 안심하십시오.
	TV의 전원을 끈 직후에 TV의 뒤에서 딱딱 소리가 난다.	• TV 내부에서 발생한 정전기가 원인으로, TV에 영향은 없습니다.
화면이 번쩍 빛난다	**어두운 방에서 전원을 넣었을 때, 화면 주변이 번쩍 빛나 보인다.**	• 브라운관내에서, 전원이 들어갈 때에 발생하는 고전압으로 인해, 브라운관내의 형광부분이 빛나기 때문입니다. TV의 성능 그 밖에 영향은 없습니다.

증상		대처의 방법
리모콘이 작동하지 않는다	**리모콘으로 조정할 수 없다.**	• 건전지를 교환하십시오. • 건전지의 ⊕⊖를 올바른 방향으로 넣으십시오. • TV 본체의 STANDBY/스테레오 램프가 빨갛게 점등하지 않을 경우, TV 본체의 전원스위치를 누르십시오. • 리모콘을 TV의 리모콘 감지부분에 잘 맞추어,가까이에서 조정해 주십시오. • 리모콘 감지부분의 근처에 형광등등의 강한 조명이 비치고 있을 때는, 조명이 비치지 않도록, 조명 기구 또는TV의 위치를 조정해 주십시오.
	리모콘의 채널 숫자 버튼을 눌러도,채널을 선택할 수 없다.	• 채널 숫자 버튼에 계속해서 ENT를 누르십시오.

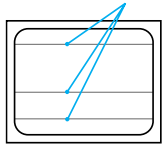
브라운관 표면의 손질에 관하여

브라운관 표면이 더러워져 있을 때는, 시판하는 글래스크리너, 또는 연마제가 들어 있지 않은 중성 세제를 물에 약하게 타서, 부드러운 천에 적셔서 닦아내십시오.
표면을 손상시킬 수 있으므로, 거친 천의 사용이나 마른 걸레질은 삼가해 주십시오. 또, 염소계나 염산등의 산성 세척액이나, 마가루나 치약 가루등 연마제함유 세제도 사용하지 마십시오.

화면에 가는 가로선이 나타나면 (댐퍼 와이어)

화면에 따라서는, 극히 가는 수평선이 보일 수 있습니다. 이것은, 댐퍼 와이어라고 불리는 선소재의 그림자로, 위치는 아래그림에 나타나 있는 대로입니다. 댐퍼 와이어는 트리니트론관내부의 아파츄어그릴의 진동을 억제하기 위해 장착되어 있는 것으로 보다 고화질의 영상을 즐길 수 있도록 연구된 것입니다.

댐퍼 와이어



주요사양

시스템

수신 방식	NTSC 방식
수신 채널	VHF 2~13 채널 UHF 14~69 채널 케이블 TV 1~125 (케이블TV 방송 회사와는 수신 계약이 필요)
브라운관*	KV-ES34K9H : FD트리니트론 105도 편향 34형 KV-ES38K9H : FD트리니트론 105도 편향 38형
* TV의 형 (38형등) 은 화면 치수를 나타내는 것이 아니라, 브라운관의 외경대각 치수를 기준으로 한 크기의 수치입니다.	
화면 치수	KV-ES34K9H : 64.4×48.0, 80.1cm대각 KV-ES38K9H : 73.2×54.6, 90.2cm대각 (폭×높이, 대각경)
사용 스피커	저음용 스피커 12cm 원형 (2) KV-ES38K9H : 미드레인지 스피커 (9×5cm) (2) 트위터 (5cm)(2) KV-ES34K9H : 미드레인지 스피커 (7×4cm) (2)
음성 출력	실용 최대 : 7W×2

입출력 단자

안테나 단자	75Ω F형 커넥터	
비디오 1, 2, 3 입력 단자		
	S1비디오:	4핀 미니 DIN Y:1Vp-p, 75Ω, 불평형, 동기부 C:0.286Vp-p (버스트 신호), 75Ω
	비디오:	핀 잭, 1Vp-p, 75Ω 불평형, 동기부
	오디오:	핀 잭, 2채널, 500mVrms, 인피던스 47kΩ 이상
비디오 4 입력 단자	비디오:	핀 잭, 1Vp-p, 75Ω 불평형, 동기부
	오디오:	핀 잭, 2 채널 500mVrms 입력 인피던스 47Ω이상
DTV(HD)/DVD 1, 2 입력 단자		
	비디오:	핀잭 Y:1Vp-p (0.3V 부동기 부착) PB/PR, CB/CR : ±350mVp-p 입력 인피던스 75Ω
	오디오:	핀 잭, 2 채널, 500mVrms, 인피던스 47kΩ 이상
모니터 출력 단자	비디오:	핀 잭, 1Vp-p, 75Ω, 불평형, 동기부
	오디오:	핀 잭, 2 채널, 500mVrms
헤드폰 단자	스테레오 미니 잭 부하 인피던스 16Ω 이상	

전원부 · 기타

소비 전력	세트의 이면에 표시
최대 외형 치수	KV-ES34K9H : 85.9×65.0×57.3cm KV-ES38K9H : 96.2×72.8×61.5cm (폭×높이×안길이)
질량	KV-ES34K9H : 약86kg KV-ES38K9H : 약112kg
전원	AC220V, 60Hz
부속품	리모트 커맨더 RM-970 (1) 건전지 단3형 (2) 안테나 접속 케이블 (1) 고정 벨트 (1) 나사 3.8×20mm (2) 크램프 (2) 사용설명서 (1) 보증서 (1) 안전을 위해 (1) 안전 점검의 안내 (1)

- 이 TV는 미국 BBE 사가 소유한 특허 USP4638258 과 4482866 을 사용하고 있습니다.
  BBE 와 BBE 의 심벌은, BBE Sound, Inc. 의 등록상표입니다.
- 사양 및 외관은 개선목적으로 예고 없이 변경할 수 있사오니, 양해해 주시기 바랍니다.

용어집

가나다순

바

비스터 비전

화면의 가로세로 비율이1.85:1로 되어 있는 영상 소프트에 관한 것입니다. 일반적으로는 화면 속에 자막이 들어가는 영화 등에 사용되고 있습니다.

사

시네마 비전

가로 세로 비율이 2.35:1로 되어 있는 영상소프트에 관한 것입니다. 일반적으로는 검은 띠에 자막이 들어가는 영화등에 사용되고 있습니다.

식별 제어 신호

식별 제어 신호란, 오리지널 영상의 가로세로 비율을 TV에서 충실하게 재현하기 위한 컨트를 신호입니다. 이 신호를 포함한 영상에는, 다음의 것이 있습니다.

- HD디지털방송
- 가로세로 비율의 정보가 들어 있는 비디오 카메라등의 기록 영상
- 가로세로 비율을 4:3 으로 한 신호가 들어있는 TV방송

아

인터레이스 (비월 주사)

주사선 525선 중, 먼저 홀수번째의 주사선 (262.5선) 을 1/60 초 동안 그리고 (이 1개 화면을 1필드라고 한다), 다음에 그 사이를 메우도록 짝수번째의 주사선 (262.5선) 을 그려, 합쳐서 주사선 525선의 1 장의 완전한 화면 (프레임) 을 만들어 가는 비월 주사를 말합니다.
TV 리모콘의 DRC-MF 모드 전환 버튼으로 선택할 수 있는 「DRC4배 고밀도 (표준)모드」는, 주사선을 통상의 NTSC 영상의 2배인 1050선으로 하여, 1 필드째에 주사선의 525선 전부 (본래의 1 프레임부분) 를 1/60 초에 그리고, 다음 필드는, 1 필드 째 사이를 525선으로 건너뛰어 주사합니다.

카

케이블TV (CATV)

계약자와 방송국을 케이블로 직접 연결하여 프로그램을 제공하는 유선 방송입니다. 일반 TV프로그램에 덧붙여 스포츠나 영화의 전문 채널, 지역 정보프로그램이나 문자 방송등을 볼 수 있습니다.

타

튜너

전파를 수신하여 각 채널에 맞추기 위한 기기입니다. 이TV는 TV튜너를 내장하고 있습니다.

디지털 · 리얼리티 · 크리에이션:멀티 펑션 (DRC-MF)

TV방송이나 비디오등의 NTSC 영상을, 소니의 독자적인 디지털 신호 처리에 의하여, 고정밀 리얼 영상으로 바꿉니다. 종래의 선형 보간 방식의 처리와는 완전히 달라, 동영상 부분의 윤곽흐림이 적은 깨끗한 화면입니다. 또, 영상에 따라, 통상의NTSC 영상의 4배의 정보량으로 그려내는 「DRC 4배 고밀도(표준) 모드」와, 순차적으로 주사를 하여, 떨림을 없앤 영상으로 만드는 「DRC 프로그래시브 모드」로 전환할수 있습니다. 또한, 이 TV에서는, DRC-MF 사용자 조정으로 영상에 맞는 화면으로 조정 가능합니다.

파

프로그래시브 (순차주사 또는 이중주사)

비월 주사 (「인터레스」의 항목을 참조)를 하지 않고, 1 필드 째에 525선전부의 주사선을 차례대로 그리고 다음 필드도 동일한 장소를 525선전부의 주사선으로 그려 가는 순차 주사를 말합니다.
TV의 리모콘의 DRC-MF 모드 전환 버튼으로 선택할 수 있는 「DRC 프로그래시브모드」는, 주사선 525선의 순차 주사를 실행, 정지화면의 문자나 그래픽, 옆선등이 많은 화면에서, 떨림을 없앤 영상을 만듭니다.

숫자 · 알파벳 순

NTSC 방식

한국이나 미국등에서 사용되고 있는 컬러TV 방식으로, 매초 30 장면, 수평주사선 수525선등이 장점입니다. 미국의 연방 텔레비전 방식 위원회 (National Television System Committee) 가 제정하고, 1954년에 방송이 정식으로 시작됐습니다. 유럽등에서 사용되고 있는 PAL 방식이나 SECAM 방식과는 상호호환성이 없습니다.

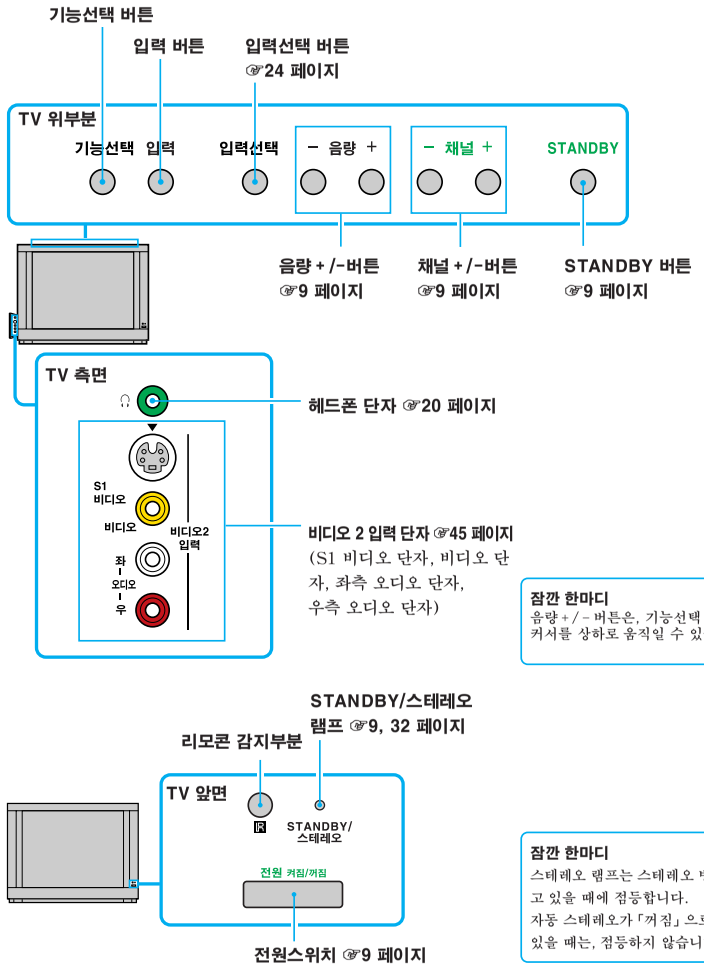
3차원 Y/C 분리 회로

TV에서 사용하고 있는 회로의 하나로, 영상신호를 구성하는 Y 신호와 C 신호를 따로따로 처리하여, 보다 선명한 화면을 재현합니다.

각 부분의 명칭

TV

리모콘에 있는 동일한 명칭의 버튼과 같은 기능을 합니다.

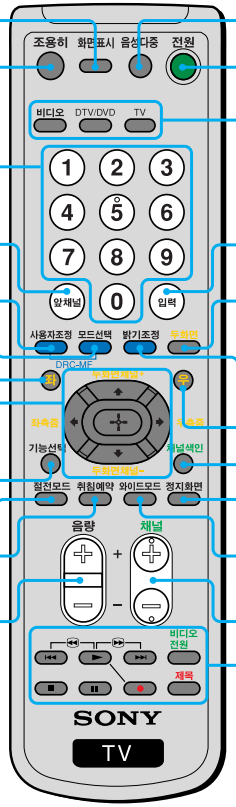


다음 페이지에 계속

각 부분의 명칭 (계속)

리모콘

TV본체 있는 동일한 명칭의 버튼과 같은 기능을 합니다.



화면표시 버튼 ☞8 페이지

조용히 버튼 ☞8 페이지

채널 숫자 버튼* ☞9 페이지

앞채널 버튼☞9 페이지

DRC-MF사용자조정 버튼 ☞10 페이지

DRC-MF모드선택 버튼 ☞12 페이지

좌측 버튼 ☞18, 20 페이지

♠/♦/♣/♥(+)/좌측 줌/우측 줌/두화면채널 +/두화면채널- ☞11, 19 페이지

기능선택 버튼 ☞20 페이지

절전모드 버튼 ☞14 페이지

취침예약 버튼 ☞32 페이지

음량+/- 버튼 ☞9 페이지

음성다중 버튼 ☞31 페이지

전원 버튼 ☞9 페이지

입력선택용 버튼 ☞24 페이지
비디오 버튼
DTV/DVD 버튼
TV 버튼

입력 버튼 ☞9 페이지

두화면 버튼 ☞17~19 페이지

밝기조정 버튼 ☞13 페이지

우측 버튼 ☞18, 20 페이지

채널색인 버튼 ☞21 페이지

정지화면 버튼 ☞23 페이지

와이드모드 버튼 ☞15 페이지

채널+/- 버튼* ☞9 페이지

DVD/비디오조정 버튼 ☞25~26 페이지

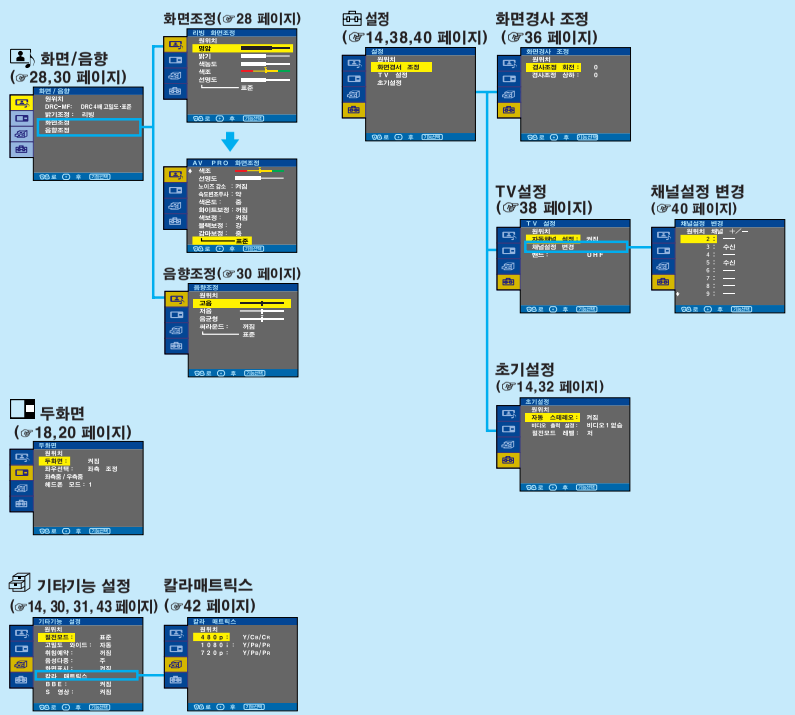
잠깐 한 마디

*가 붙은 버튼(숫자 버튼은 「5」만)에는, 凸점(돌기)이 붙어 있습니다. 조정할 때의 기준으로, 사용하십시오.

♠/♦/♣/♥의 사용법

기능선택 일람

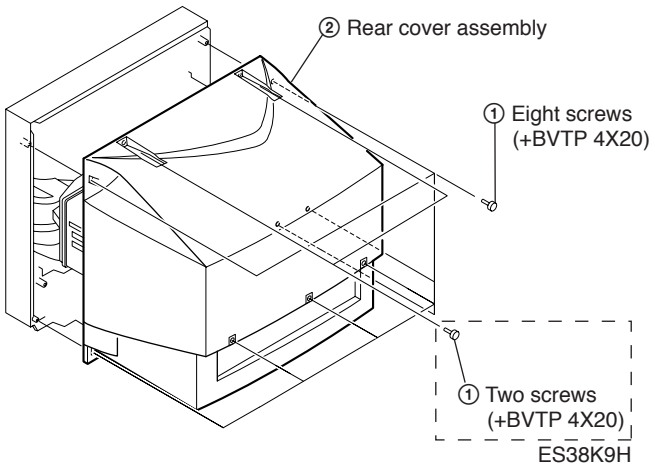
리모콘과 TV본체의 기능선택 을 누르면 나오는 메뉴



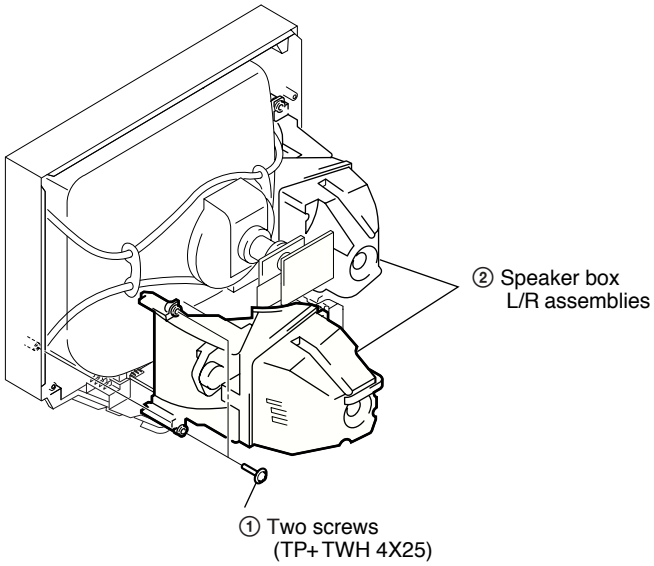
- 기능선택은 ♠/♦/♣/♥로 선택, (+)버튼을 누르든가 또는 ♥로 결정합니다.
- 노란 색으로 표시되는 부분이 선택되어 있습니다.
- 검게 표시되는 부분은 선택할 수 없습니다.

SECTION 2
DISASSEMBLY

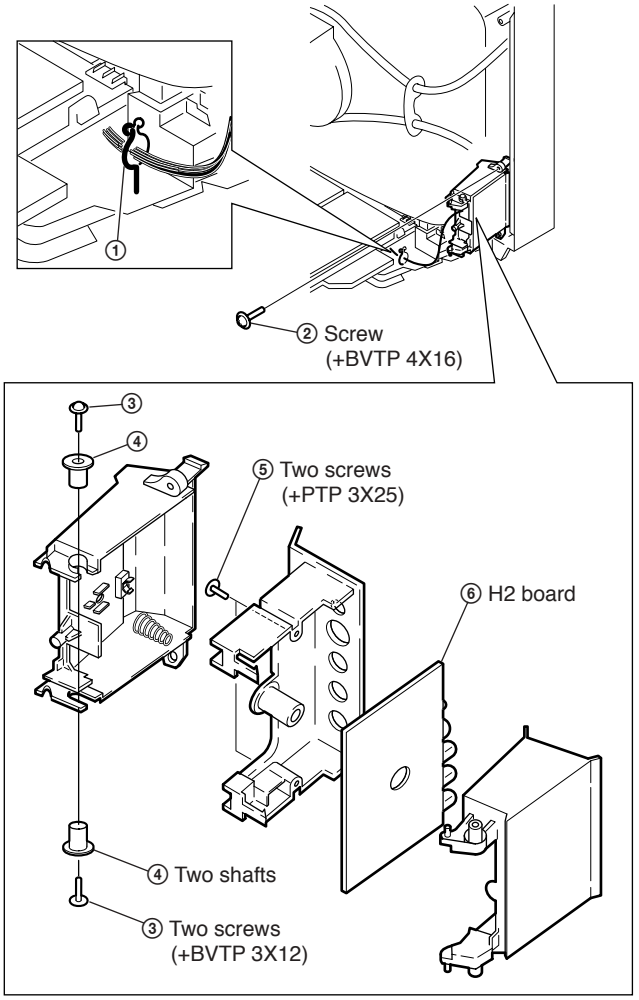
2-1. REAR COVER ASSEMBLY



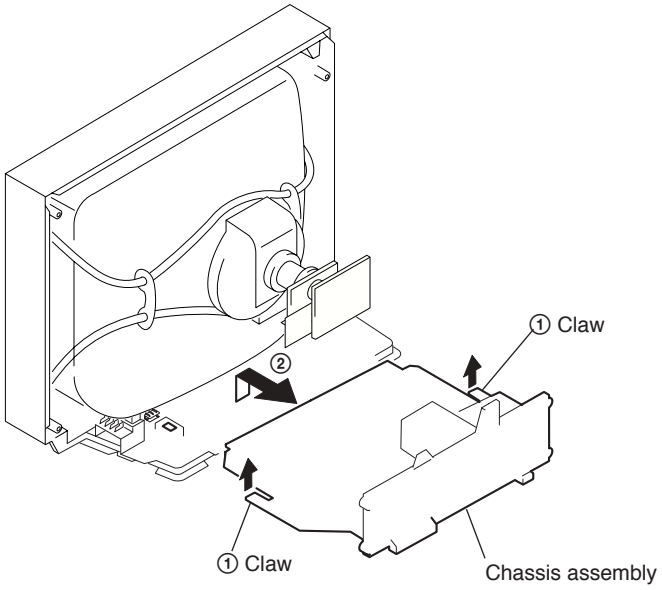
2-2. SPEAKER BOX ASSEMBLY



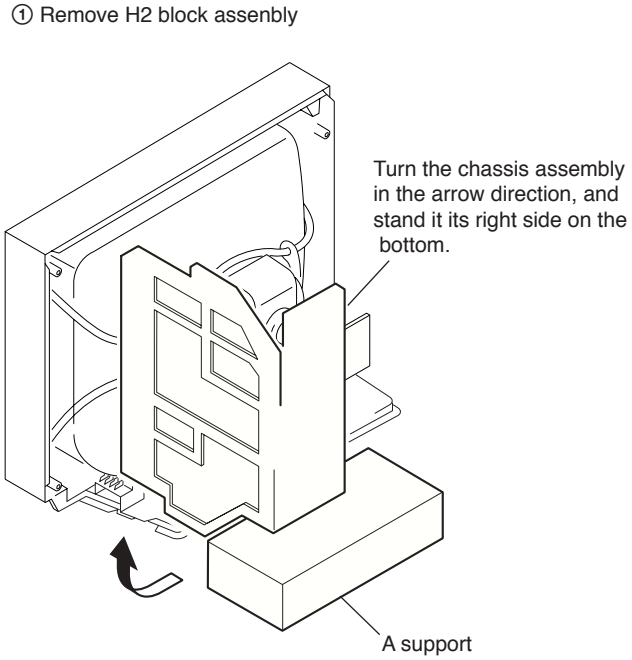
2-3. H2 BOARD



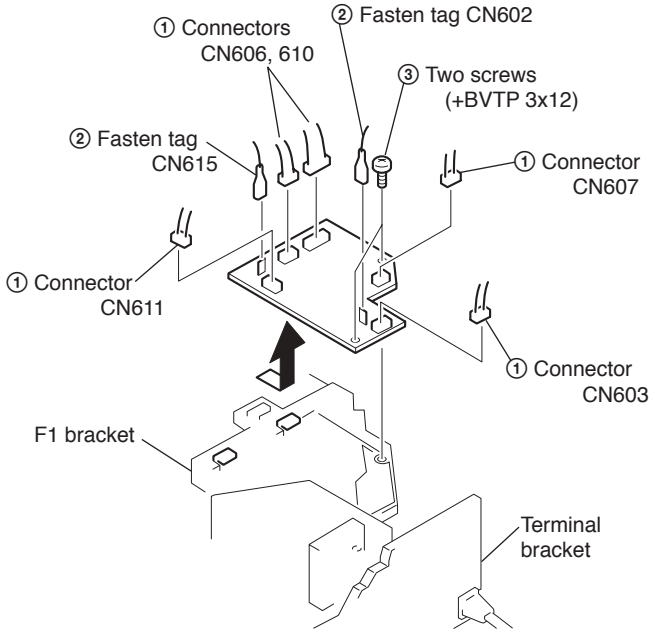
2-4. CHASSIS ASSEMBLY



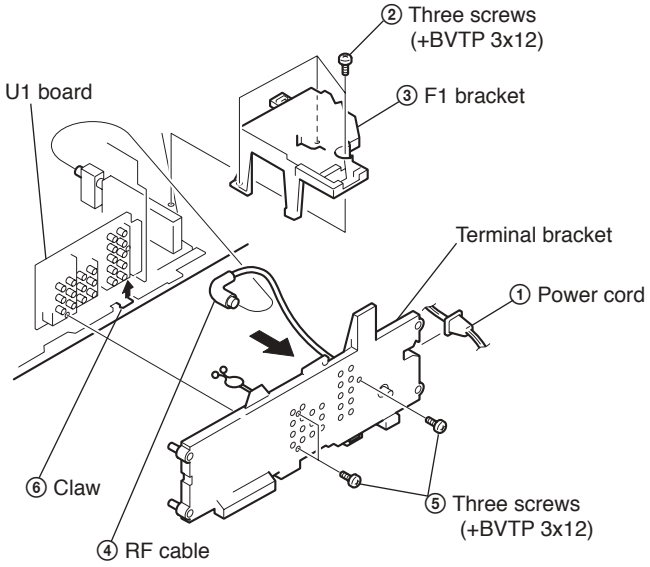
2-5. SERVICE POSITION


① Remove H2 block assenbly
Turn the chassis assembly in the arrow direction, and stand it its right side on the bottom.
A support

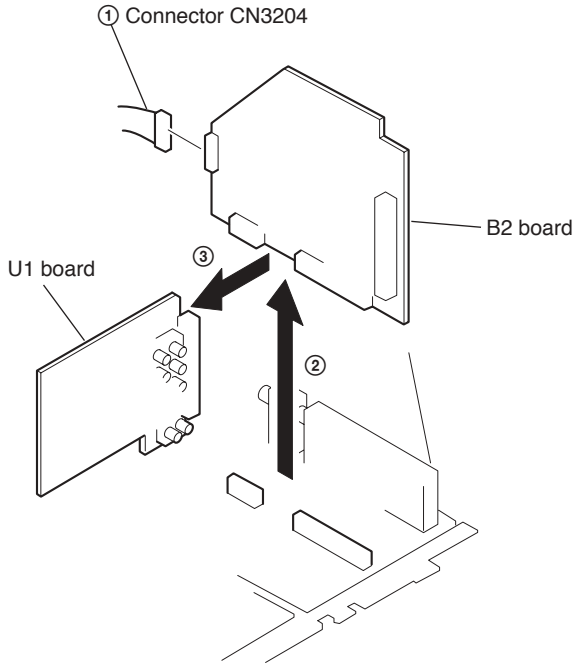
2-6. F1 BOARD



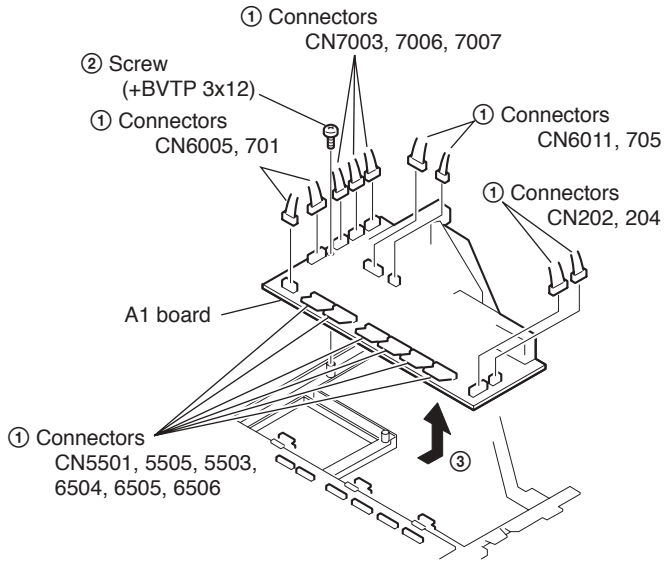
2-7. F1 AND TERMINAL BRACKETS



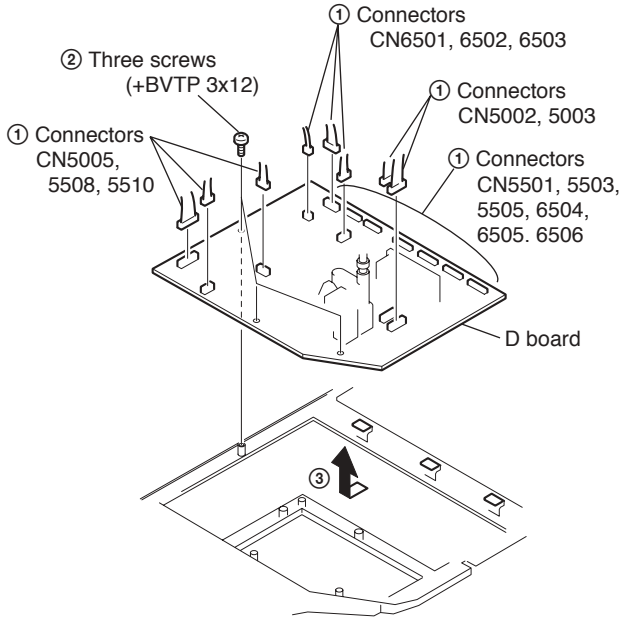
2-8. B2 AND U1 BOARDS



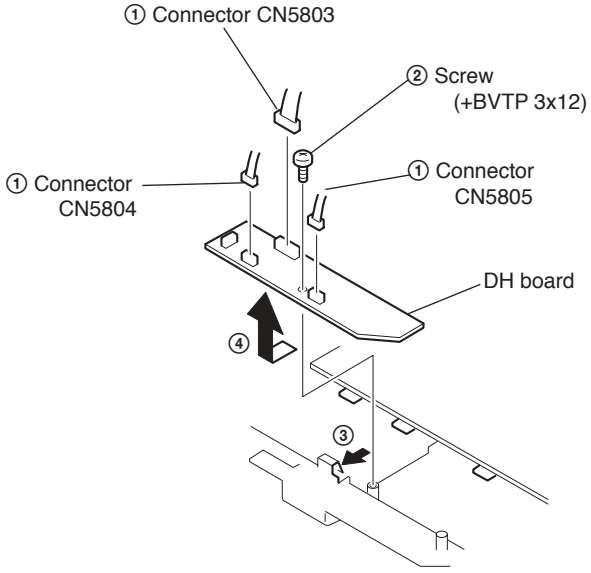
2-9. A1 BOARD



2-10. D BOARD

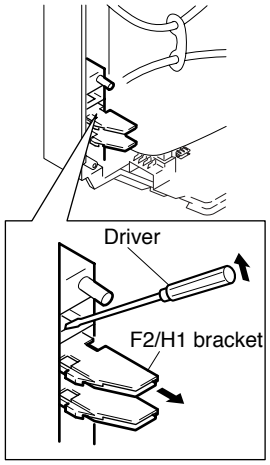


2-11. DH BOARD



2-12. H1 BOARD

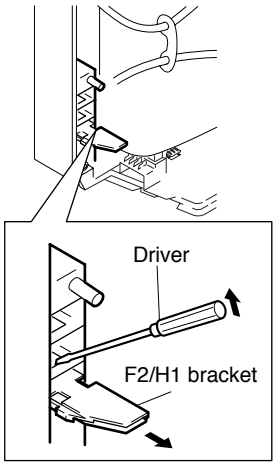
NOTE: Push the hook down using the tip of a screwdriver and at the same time pull the H1 bracket.



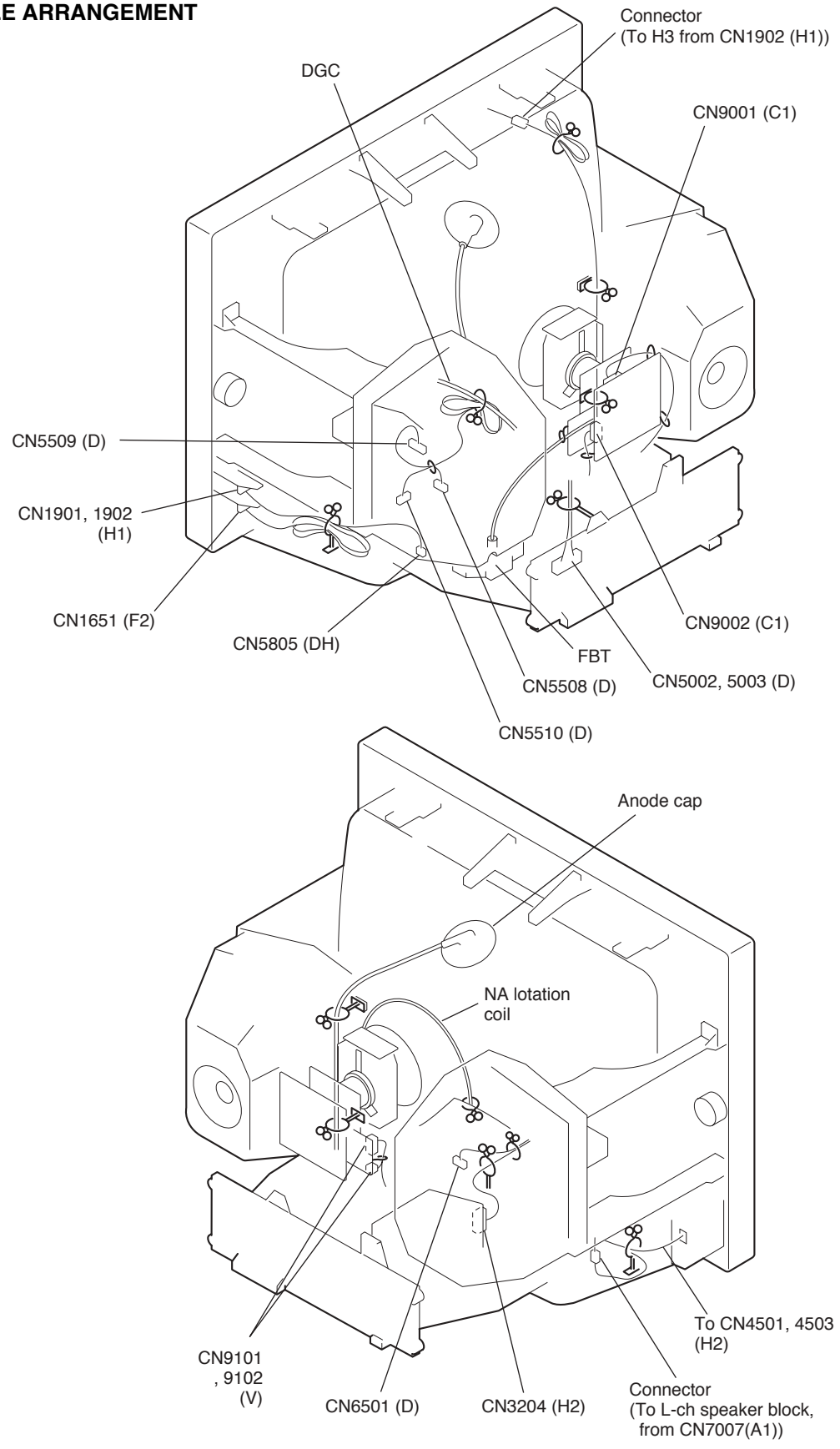
2-13. F2 BOARD

NOTE: To remove F2 board, firstly remove the H1 board. Then, push the hook down using the tip oof a screwdriver and at the same time pull the F2 bracket.

CAUTION: When removing the F2 board, please turn off the main AC supply and disconnect the AC plug.



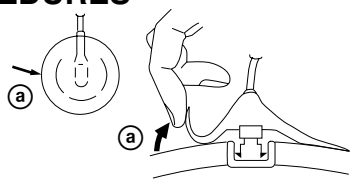
2-14. CABLE ARRANGEMENT



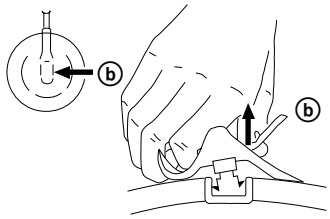
2-15. REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

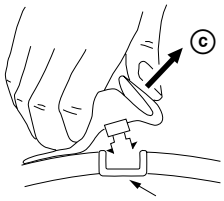
• REMOVING PROCEDURES



① **Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.**



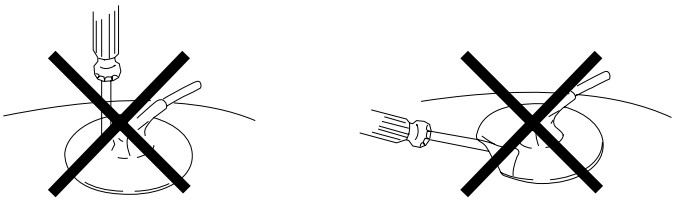
② **Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.**



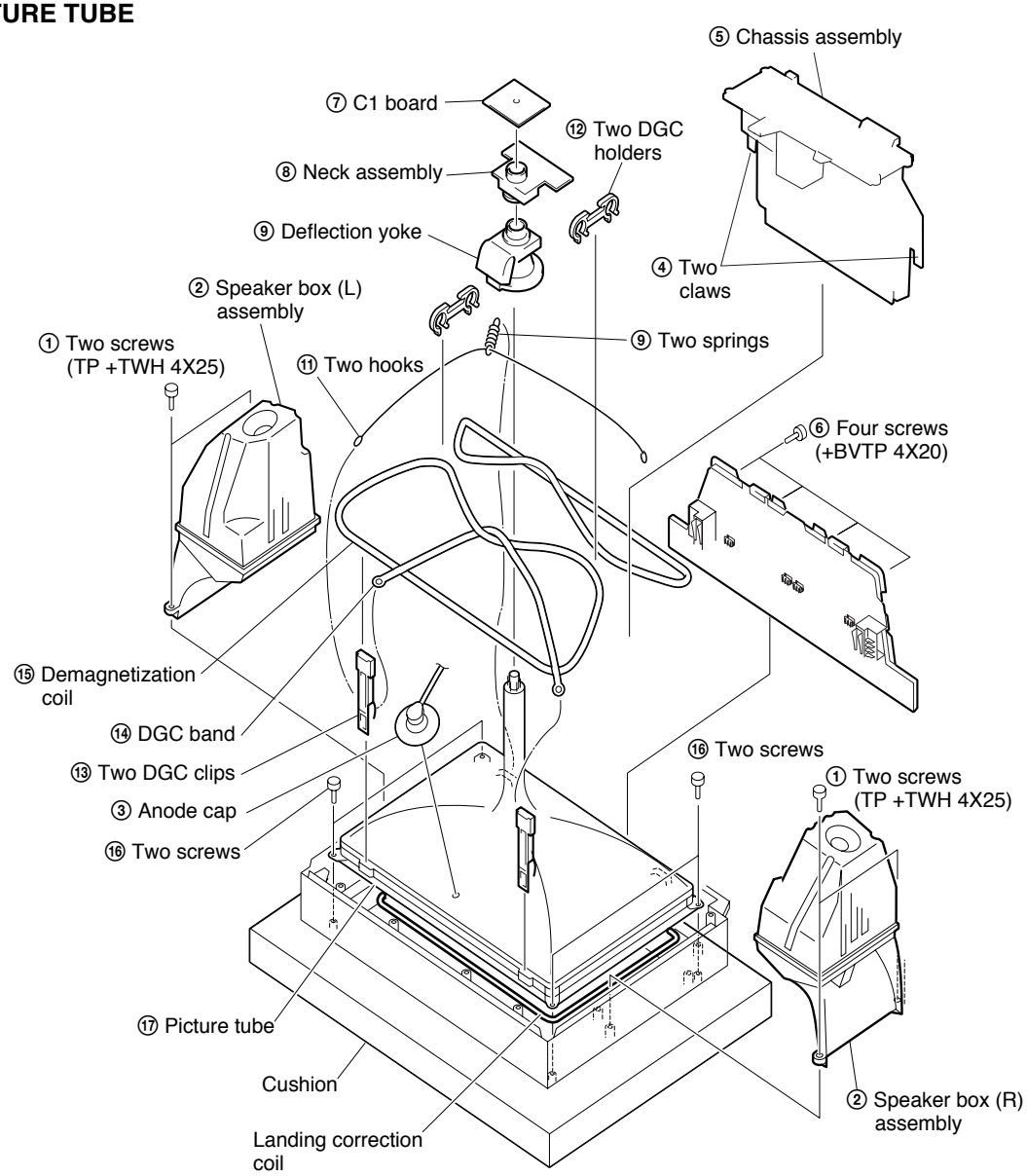
③ **When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ.**

• HOW TO HANDLE AN ANODE-CAP

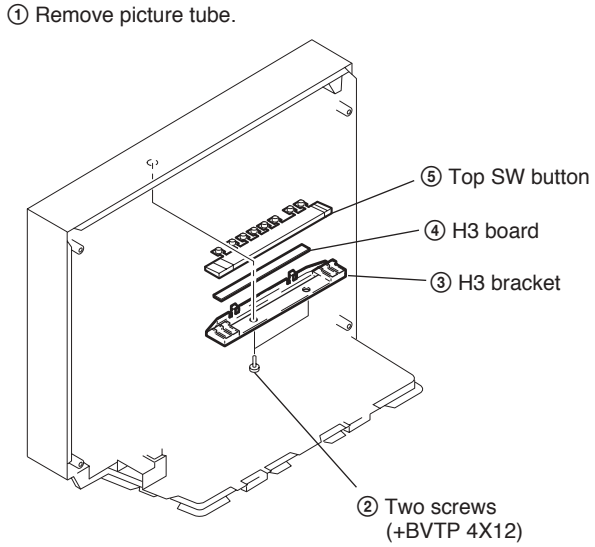
① **Do not damage the surface of anode-caps with sharp shaped objects.**
② **Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.**
③ **Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.**

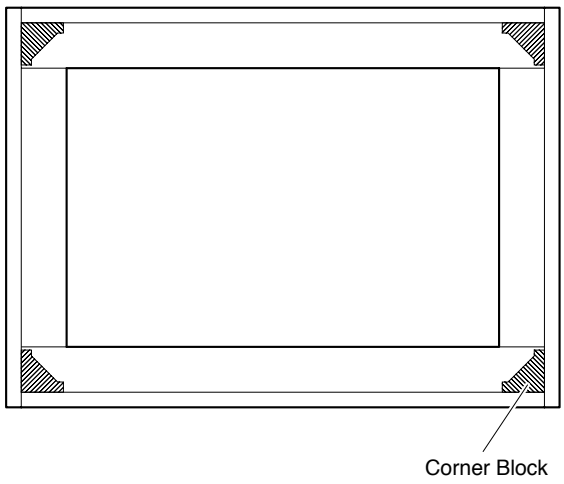


2-16. PICTURE TUBE

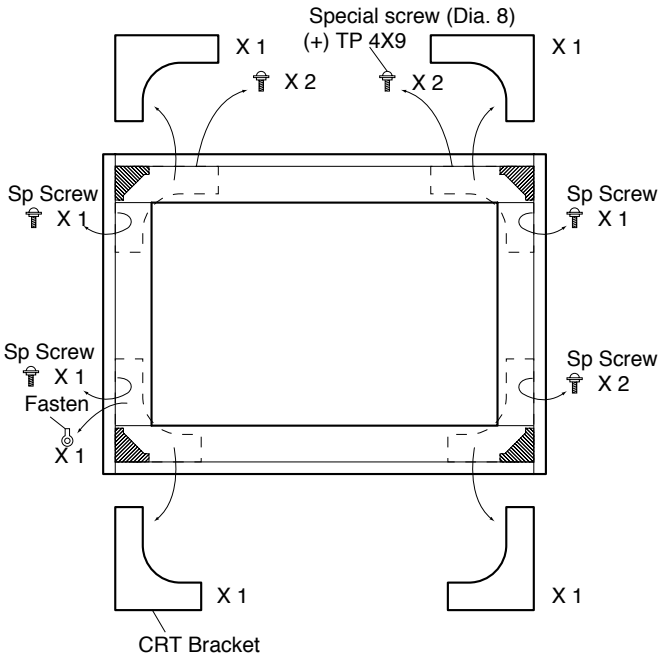


2-17. H3 BOARD

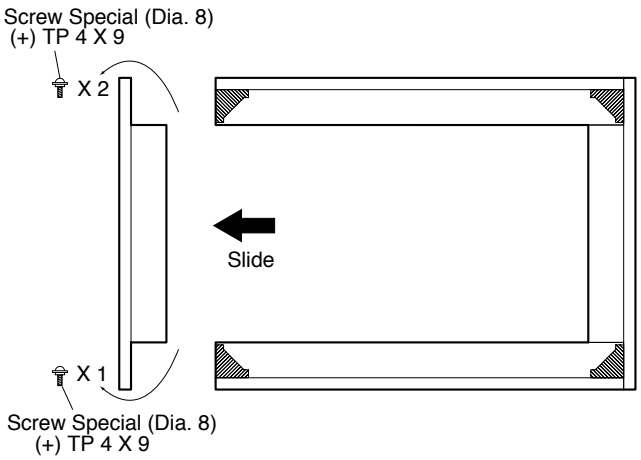




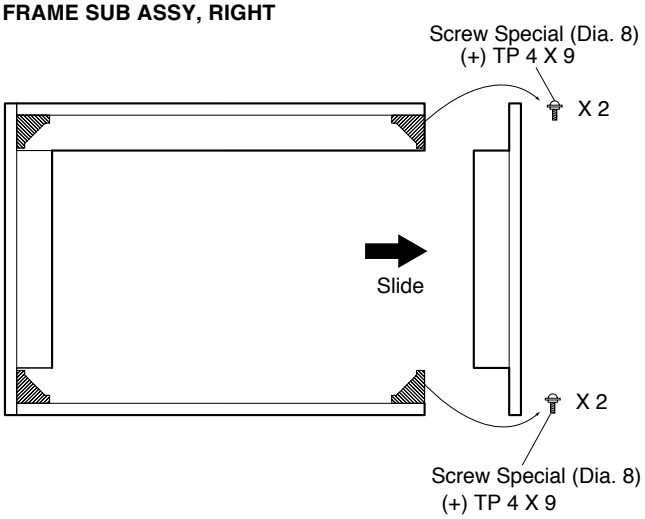
2-18. FRAME SUB-ASSEMBLIES



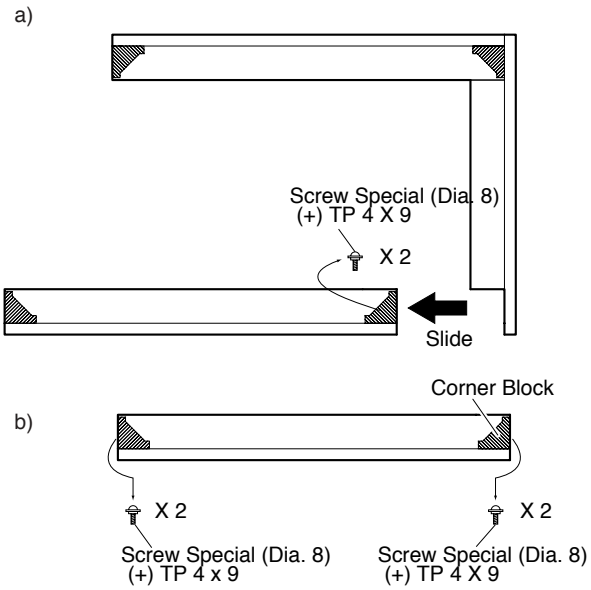
FRAME SUB ASSY, LEFT



FRAME SUB ASSY, RIGHT

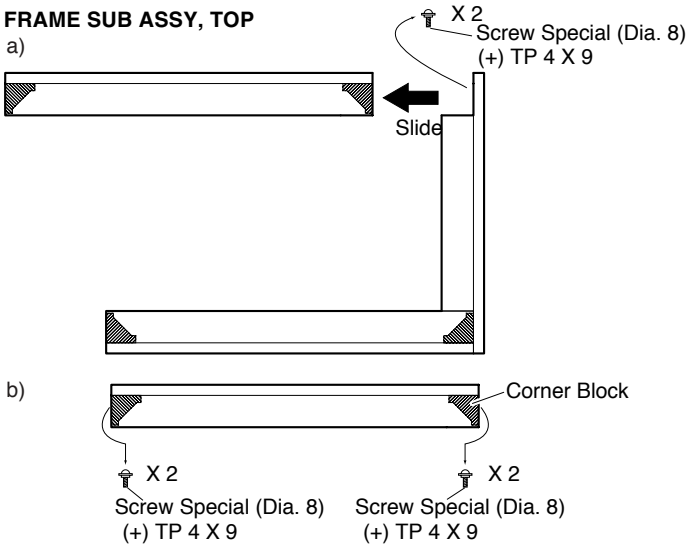


FRAME SUB ASSY, BOTTOM



NOTE: When replacing the frame sub-assembly top or bottom, fix the original corner block to the new part.

FRAME SUB ASSY, TOP



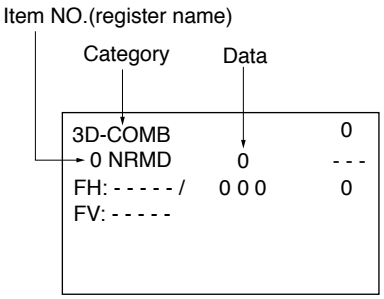
SECTION 3
SERVICE MODE

3-1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

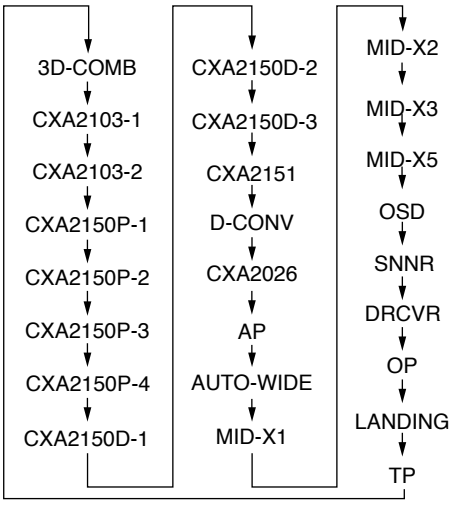
SERVICE MODE PROCEDURE

1. Standby mode. (Power off)
2. [화면표시] → [5] → [음량 (+)] → [전원] on the Remote Commander.
   (Press each button within a second.)

3-2. SERVICE MODE ADJUSTMENT



3. The SCREEN displays the item being adjusted.
4. Press [1] or [4] on the Remote Commander to select the adjustment item.
5. Press [3] or [6] on the Remote Commander to change the data.
6. Press [2] or [5] on the Remote Commander to select the category.
   Every time you press 2(Category up), Service mode changes in the order as shown below.



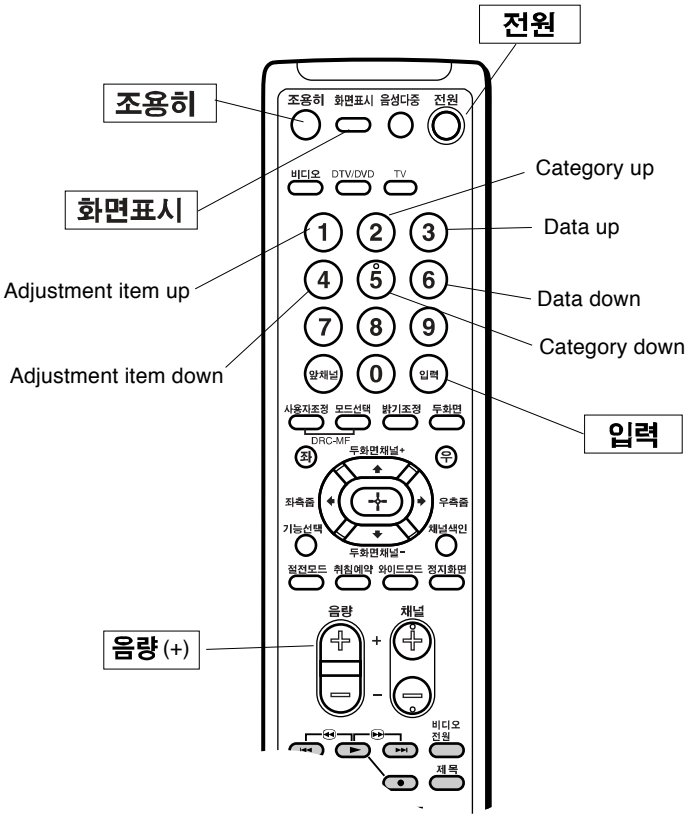
7. If you want to recover the latest values press [10] then [입력] to read the memory.
8. Press [MUTING] then [입력] to write into memory.
9. Turn power off.

Note: Press [8] then [입력] on the Remote Commander to initialize or turn set off and on to exit.

3-3. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, turn power off with the remote commander.
2. Turn power on and set to Service Mode.
3. Call the adjusted items again and confirm they were adjusted.

3-4. ADJUSTING BUTTONS AND INDICATOR



RM-970

3-5.SERVICE MODE LIST

3D-COMB uPD64082

Note: * shows common data.

Reg.No	& Name	FUNCTION							
1	YAPS	Y-output correction	3	*					
2	CLKS	System clock setting	1	*					
			UHF/VHF & Cvideo		Svideo				
			Standard	Non-standard	Standard	Non-standard			
3	NSDS	Selection for standard/non-standard signal processing	0	0	0	0			
4	MSS	Selection for inter-frame/inter-line processing	0	*					
5	KILS	Killer processing selection	2	*					
			UHF/VHF	CV/SV					
6	CDL	C-signal phase with respect to the Y-signal	3	3					
			NRMD=0	NRMD=1	NRMD=2	NRMD=3			
7	DYCO	DY detection coring level (Y motion detection coring)	2	2	2	2			
8	DYGA	DY detection gain (Y motion detection gain)	10	10	10	10			
9	DCCO	DC detection coring level (C motion detection coring)	5	5	5	5			
10	DCGA	DC detection gain (C motion detection gain)	5	5	5	5			
11	YNRL	Frame recursive YNR nonlinear filter limit level	1	*					
12	CNRL	Frame recursive CNR nonlinear filter limit level	1	*					
			UHF/VHF	Video	COMP				
13	VTRH	Hysteresis for Hsysnc non-standard signal detection	1	1	1				
14	VTRR	Sensitivity for Hsysnc non-standard signal detection	1	1	1				
15	LDSR	Sensitivity for frame non-standard signal detection	2	2	2				
			AV PRO(VM=off)	AV PRO(VM=Low)	AV PRO(VM=Mid)	AV PRO(VM=High)	DYNAMIC	STANDARD	LIVING
16	VAPG	V-aperture compensation gain	0	2	3	4	4	2	2
17	VAPI	V-aperture compensation convergence point	4	4	4	4	4	4	4
18	YPFT	Y peaking filter (BPF) center frequency	3						
19	YPFG	Y peaking filter (BPF) gain	8						
			SNNR=0	SNNR=1	SNNR=2	SNNR=3			
20	YHCO	Y output high frequency component coring	0	1	1	1			
21	YHCG	Y output high frequency component coring gain	0	1	1	1			
22	HSSL	Hsync slice level	12	*					
23	VSSL	Vsync slice level	8	*					
24	ADCL	ADC clock delay	3	*					
			NRMD=0	NRMD=1	NRMD=2	NRMD=3			
25	D2GA	Moving detection gain	4	4	4	4			
26	KILR	Killer detection reference	3	*					

Note: YHCO & YHCG are defined directly by SNNR data.

RM-970

3D-COMB uPD64082

Reg.No & Name		FUNCTION								
27	OP	Option: Selection of comb filter&recursive n.reduction types.	1	*						
			UHF/VHF	CVideo1	SVideo1	CVideo2	SVideo2	CVideo3	SVideo3	CVideo4
28	NR1	Noise reduction on/off	0	0	0	0	0	0	0	0
29	NR2	SNNR control on/off	0	*						
30	WSL	Noise level detection level data	0-255	Read Data						
31	HPLL	H-PLL filter	1	*						
32	BPLL	Burst PLL filter	1	*						
33	FSCF	Burst extraction gain	0	*						
34	PLLF	PLL loop gain	1	*						
			UHF/VHF	Video	COMP					
35	CC3N	Selection if a line-comb filter C separation filter characteristic	0	0	0					
36	HDP	Fine adjustment of the system H-phase	5	*						
37	BGPS	Internal	4	*						
38	BGPW		10	*						
39	TEST	Test bit (0:Normal mode 1:Test mode) * forbidden setting	0	*						
40	WSC	Amount of noise detection coring	1	*						
			UHF/VHF & Video		COMP					
41	LIND	DRC-M line-doubling setting for non-standard signals UHF/VHF&Video1-4	0		0					
42	PFGO	(YPFG offset at GR on) * Not used	3	*						
43	WSS		0							

NTSC-YCT (Chroma Decoder) CXA2103-1 (Main)

Reg.No & Name		FUNCTION									
				DRC		VDO					
				UV & Video	COMP	UV & Video	COMP				
0	YLEV	Y-Out gain		28	29	27	31				
1	CLEV	Cb&Cr-Out gain		20	35	55	31				
				UHF/VHF	Video						
2	SCON	Sub contrast		ADJ (8)	ADJ (7)						
3	SCOL	Sub color		ADJ (6)	ADJ (7)						
4	SHUE	Sub hue		ADJ (9)	ADJ (9)						
5	YDLY	Y/C delay time		0	0						
				UHF/VHF	Cvideo	Svideo	COMP				
6	SHAP	Sharpness		5	5	5	7				
7	SHF0	Sharpness f0 selector		1	1	1	1				
8	PREO	Sharpness pre/over-shoot ratio		3	3	3	0				
9	BPF0	Chroma band filter f0 setting		0	0	0	0				
10	BPFQ	Chroma band filter Q setting		3	0	0	0				
11	BPSW	Chroma bnad filter on/off		1	0	0	0				
12	TRAP	Y block chroma trap filter on/off		0	0	0	0				
13	LPF	Y Cb Cr-Output LPF on/off		0	0	0	0				
				UHF/VHF	Video	COMP					
14	AFCG	AFC Loop gain (PLL between Hsync & HVCO)		1	0	0					
15	CDMD	V countdown system mode selector		3	3	3					
16	SSMD	H&Vsync slide level setting		0	0	0					
17	HMSK	Masking of macrovision signal on/off		1	1	1					
18	HALI	H automatic adjustment on/off		0	0	0					
19	PPHA	H TIM phase adjustment video		7	7	7					
				DRC		VDO					
				UV & Video	COMP	UV & Video	COMP				
20	CBOF			36	40	31	31				
21	CROF			35	40	31	31				
				TWIN & INDEX							
			Single Picture	UBLK-0	UBLK-1	UBLK-2	UBLK-3	UBLK-4	UBLK-5	UBLK-6	UBLK-7
22	ATPD	Auto-pedestal Inflection Point P&P & Favorite UBLK=0	0	0	1	2	3	1	2	3	2
23	DCTR	DC Transmission Ratio P&P & Favorite UBLK=0	0	0	1	1	1	2	2	2	3
				GR : On							
24	RSCO			3							
25	RSCL			3							
26	RSHU			4							

NTSC-YCT (Chroma Decoder) CXA2103-2 (Sub)

Reg.No	Name	FUNCTION		DRC		VDO	
				UV & Video	COMP	UV & Video	COMP
0	YLEV	Y-Out gain		28	31	37	31
1	CLEV	Cb&Cr-Out gain		19	31	31	31
				UHF/VHF	Video		
2	SCON	Sub contrast		ADJ (6)	ADJ (7)		
3	SCOL	Sub color		ADJ (7)	ADJ (7)		
4	SHUE	Sub hue		ADJ (9)	ADJ (9)		
5	YDLY	Y/C delay time		0	0		
				UHF/VHF	Cvideo	Svideo	COMP
6	SHAP	Sharpness		6	6	6	7
7	SHF0	Sharpness f0 selector		1	1	3	3
8	PREO	Sharpness pre/over-shoot ratio		3	3	3	0
9	BPF0	Chroma band filter f0 setting		0	0	0	0
10	BPFQ	Chroma band filter Q setting		0	0	0	0
11	BPSW	Chroma bnad filter on/off		0	0	0	0
12	TRAP	Y block chroma trap filter on/off		0	0	0	0
13	LPF	Y Cb Cr-Output LPF on/off		0	0	0	0
				UHF/VHF	Video	COMP	
14	AFCG	AFC Loop gain (PLL between Hsync & HVCO)		1	0	0	
15	CDMD	V countdown system mode selector		3	3	3	
16	SSMD	H&Vsync slide level setting		0	0	0	
17	HMSK	Masking of macrovision signal on/off		1	1	1	
18	HALI	H automatic adjustment on/off		0	0	0	
19	PPHA	H TIM phase adjustment video		7	7	7	
				DRC		VDO	
				UV & Video	COMP	UV & Video	COMP
20	CBOF			35	31	38	31
21	CROF			35	31	36	31

Note: Reg.No 14 to 19 are the same data as CXA2103-1. (the same NVM address)

Note: Reg.No 22 and 23 are the same data as CXA2103-1. (the same NVM address)

				TWIN & INDEX							
			Single Picture	UBLK-0	UBLK-1	UBLK-2	UBLK-3	UBLK-4	UBLK-5	UBLK-6	UBLK-7
22	ATPD	Auto-pedestal Inflection Point P&P & Favorite UBLK=0	0	0	1	2	3	1	2	3	2
23	DCTR	DC Transmission Ratio P&P & Favorite UBLK=0	0	0	1	1	1	2	2	2	3

			1H Comb
24	GSCO		3
25	GSCL		3
26	GSHU		3

CRT Driver CXA2150P-1 (Picture Controls:P1)

Reg.No & Name		FUNCTION				
			UV/VIDEO/ TWIN/Comp.480i INDEX	Comp.480p	Comp.1035i/ 1080i(MID)	Comp.1035i/ 1080i(ATH)
0	SBOT	Offset for SBRT	7	7	7	7
1	YOF	Y OFFSET: DC-offset for Y signal	10	0	0	0
2	CBOF	CB OFFSET: DC-offset for Cb signal	32	39	40	39
3	CROF	CR OFFSET: DC-offset for Cr signal	32	41	43	38
4	SBRT	SUB BRT: Sub Bright	ADJ (26)	*		
5	RDRV	R DRIVE: R output drive	ADJ (41)	*		
6	GDRV	G DRIVE: G output drive	30	*		
7	BDRV	B DRIVE: B output drive	ADJ (28)	*		
8	RCUT	R CUTOFF: R output cutoff	ADJ (41)	*		
9	GCUT	G CUTOFF: G output cutoff	36	*		
10	BCUT	B CUTOFF: B output cutoff	ADJ (47)	*		
			COL Temp:Mid	COL Tem:Low		
11	WBSW					
12	SBOF	Offset for SBRT	63	63		
13	RDOF	Offset for RDRV	63	63		
14	GDOF	Offset for GDRV	65	68		
15	BDOF	Offset for BDRV	63	75		
16	RCOF	Offset for RCUT	63	63		
17	GCOF	Offset for GCUT	61	65		
18	BCOF	Offset for BCUT	53	72		

RM-970

CRT Driver CXA2150P-2 (Picture Controls:P2)

Reg.No & Name		FUNCTION						
0				*				
1				*				
2	BLKB	BLK BTM: RGB output bottom limit level (Black level)	3	*				
3	LIML	PLIMIT LEV: Threshold level for excessively high inputs	0	*				
4	PABL	P ABL: DC-level in RGB output detection for PEAK ABL	15	*				
5	SABL	S ABL: S ABL gain	0	*				
6	AGNG	AGING W/AGING B: AGING W/AGING B modes on/off	0	*				
7	AKBO	AKBOFF: Automatic/Manual = Cut off setting	0	*				
			UHF/VHF/VIDEO	Comp.480i	Comp.480p	Comp.1035i/1080i	TWIN/INDEX	
8	SYPH	SYNC PHASE: Hsync delay with respect to Video (100%H-period)	0	0	0	0	0	
9	CLPH	CLP PHASE: Internal clamp pulse phase (100%H-period)	3	3	3	3	3	
10	CLGA	CLP GATE: Switch for the gated internal clamp pulse with Hsync	0	0	0	0	0	
11	JAXS	JAXIS: color axis switch	0	*				
12	BLKO	BLKO: Blanking switch	0	*				

CRT Driver CXA2150P-3 (Picture Controls:P3) (Part1)

Reg.No & Name		FUNCTION	AI MODE : DYNAMIC							
			UHF/VHF	VIDEO	480i	480p	1080i	1035i/1080i(ATH)	720p	TWIN/INDEX
0	SYSM	SYSTEM: Signal bandwidth setting	1	1	1	1	2	2	2	2
1	UVML	VM LEV: VM OUT level	3	3	3	3	3	3	3	3
2	VMMO	System Micro pin#40	0	0	0	0	0	0	0	0
3	VMCR	VM COR: VM OUT coring level	0	0	0	0	0	0	0	0
4	VMLM	VM LMT: VM OUT limit level	3	3	3	3	0	0	0	3
5	VMF0	VM F0: VM f0	1	1	1	1	1	1	1	2
6	VMDL	VM DLY:VM OUT phase (defined by phase difference from R OUT)	2	2	2	2	2	2	2	2
7	SHOF	Offset for USHP=SHOF x 4	1	0	0	0	1	1	1	0
8	SHF0	SHP F0: Sharpness circuit f0	1	1	1	1	1	1	1	1
9	PROV	PRE/OVER: Y signal pre/over-shoot ratio	3	3	3	3	3	3	3	3
10	F1LV	SHP F1: Sharpness for higher f0 (4.2/5.6Mhz @NORMAL mode)	0	0	2	2	3	3	3	0
11	CDSP	SHP CD: Sharpness in part of high color saturation	3	3	3	3	3	3	3	3
12	LTLV	LTI LEV: Luminance transient improvement (LTI)	3	3	3	3	3	3	3	3
13	LTMD	LTI MODE: LTI mode setting	1	1	1	1	1	1	1	1
14	CTLV	CTI LEV: Chrominance transient improvement (CTI)	3	3	0	0	3	3	3	1
15	CTMD	CTI MODE: CTI mode setting	0	0	0	0	0	0	0	0
16	UBOF	Offset for UBRT (Picture clarity adjustment)	7	7	7	7	9	9	9	7
17	UCOF	Offset for UCOL=UCOF x 2 (Picutre clarity adjustment)	0	0	0	0	0	0	0	0
18	UHOF	Offset for UHUE (Picutre clarity adjustment)	1	1	1	1	1	1	1	1
19	MIDE	MID enhancement setting	3	7	11	11		15	12	

CRT Driver CXA2150P-3 (Picture Controls:P3) (Part2)

Reg.No & Name		AI MODE: STANDARD								AI MODE: LIVING								AI MODE: AV PRO							
		UHF VHF	VIDEO	480i	480p	1080i	1035i/1080i (ATH)	720p	TWIN/ INDEX	UHF VHF	VIDEO	480i	480p	1080i	1035i/1080i (ATH)	720p	TWIN/ INDEX	UHF VHF	VIDEO	480i FAIN:On	480p FAIN:On	1080i: FAIN:On	1035i/1080i (ATH) FAIN:On	720p FAIN:On	TWIN/ INDEX
0	SYSM	1	1	1	1	2	2	2	2	1	1	1	1	2	2	2	2	1	1	2	2	3	3	3	2
1	UVML	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0
2	VMMO	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
3	VMCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	VMLM	3	3	3	3	0	0	0	3	3	3	3	3	0	0	0	3	3	3	3	3	0	0	0	3
5	VMF0	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	1	1	2	2	2	2	2	2
6	VMDL	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7	SHOF	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
8	SHF0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	PROV	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
10	F1LV	0	0	1	1	2	2	2	0	0	0	1	1	2	2	2	0	0	0	3	3	3	3	3	0
11	CDSP	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	3	3	3	3	3	0
12	LTLV	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	1
13	LTMD	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	CTLV	3	3	0	0	3	2	3	1	3	3	0	0	3	2	3	1	3	3	0	0	3	1	3	1
15	CTMD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	UBOF	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
17	UCOF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
18	UHOF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
19	MIDE	2	6	10	10	–	14	12	–	1	5	9	9	–	14	12	–	0	4	8	8	–	13	12	–

Reg.No & Name		AI MODE: AV PRO				
		480i FAIN:Off	480p FAIN:Off	1080i FAIN:Off	1035i/1080i (ATH) FAIN:Off	720p FAIN:Off
0	SYSM	1	1	2	2	2
1	UVML	0	0	0	0	0
2	VMMO	0	0	0	0	0
3	VMCR	0	0	0	0	0
4	VMLM	3	3	0	0	0
5	VMF0	1	1	1	1	1
6	VMDL	2	2	2	2	2
7	SHOF	0	0	0	0	0
8	SHF0	1	1	1	1	1
9	PROV	3	3	3	3	3
10	F1LV	0	0	0	0	0
11	CDSP	0	0	0	0	0
12	LTLV	1	1	1	1	1
13	LTMD	1	1	1	1	1
14	CTLV	0	0	3	1	3
15	CTMD	0	0	0	0	0
16	UBOF	7	7	7	3	7
17	UCOF	0	0	0	0	0
18	UHOF	0	0	0	0	0
19	MIDE	8	8	–	13	12

RM-970

CRT Driver CXA2150P-4 (Picture Controls:P4)

Reg.No & Name		FUNCTION	DYNAMIC	STANDARD	LIVING	AV PRO			
0	UPIC	PICTURE: Picture	53	40	31	31			
1	UBRT	BRIGHT: Brightness	29	31	31	31			
2	UCOL	COLOR:	32	31	31	31			
3	UHUE	HUE:Hu	31	31	31	31			
4	USHP	SHARPNESS: Sharpness	30	29	31	31			
5	UTMP	Color Temperature (0:Warm 1:Neutral 2:Cool)	2	2	2	1			
6	UDCL	DCOL: D	3	2	2	0			
			AI Mode : AV PRO						
			UV/VIDEO	Comp.480i	Comp.480p	Comp.1080i	Comp.1035i	Comp.720p	TWIN/INDEX
7	AXIS	COL AXIS: color matrix setting	2	2	2	2	2	2	2
			AI Mode : DYNAMIC						
			UV/VIDEO	Comp.480i	Comp.480p	Comp.1080i	TWIN/INDEX		
8	UGAM	GAMMA/GAMMA L: RGB output GAMMA correction setting	6	6	6	5	6		
			GAMMA: LOW	GAMMA: MID	GAMMA: HIGH				
9	AGAM	GAMMA/GAMMA L (AV Pro user control) - Void Data	2	4	6				
			UGAM-0	UGAM-1	UGAM-2	UGAM-3	UGAM-4	UGAM-5	UGAM-6	UGAM-7
10	GSBO	Offset for SBRT	0	0	0	0	0	0	0	0
11	GCCO	Offset for UCOL	0	0	0	0	0	0	0	0
12	GHUO	Offset for UHUE	0	0	0	0	0	0	0	0
			AI Mode : DYNAMIC						
			UV/VIDEO	Comp.480i	Comp.480p	Comp.1080i	TWIN/INDEX		
13	UBLK	Item#15-18 pack F1 data controls	7	7	7	7	4		
			BLK Lv1 :LOW	BLK Lv1 :MID	BLK Lv1 :HIGH				
14	ABLK	(Av Pro user control) - Void Data	2	5	7				
			UBLK0	UBLK1	UBLK2	UBLK3	UBLK4	UBLK5	UBLK6	UBLK7
15	DCTR	DC TRAN: Y signal DC transmission	1	1	1	1	2	2	2	3
16	DPIC	DPIC LEV: Y signal AUTO PEDESTAL level	0	1	2	3	1	2	3	2
17	DSBO	Offset for SBRT	7	7	7	7	7	7	7	7
18	ABLM	ABL MODE: ABL mode	0	0	0	0	0	0	0	1
			PWR Save : Off		PWR Save : On (little)		PWR Save : On (large)			
			NORMAL	NOT NORMAL	NORMAL	NOT NORMAL	NORMAL	NOT NORMAL		
19	ABLT	ABL TH: ABL current detection Vth contro	0	0	0	0	0	0		
20	ABLC		69	0	98	65	128	98		
			PWR Save :On (little)	PWR Save : On (large)						
21	EPOF	Offset for UPIC=EPOF x (UPIC/63) (for power save) - Void Data	20	30						
			TWIN/INDEX							
22	SPOF	Offset for UPIC=SPOF x (UPIC/64) - Data Not used	0							
			UV/VIDEO	Comp.480i	Comp.480p	Comp.1035i/1080i (MID)	TWIN/INDEX	Comp.1035i/1080i (ATH)		
23	SCON	SUB CONTRAST: SUB PICTURE	6	5	4	5	6	6		
24	CLOF	Offset for UCOL	8	9	9	9	8	9		
25	HUOF	Offset for UHUE	4	4	4	4	4	4		

CRT Driver CXA2150P-4 (Picture Controls:P4)

Reg.No & Name		FUNCTION																			
			SNNR =0	SNNR =1	SNNR =2	SNNR =3															
#4	USHP		0	1	3	4															
			AI Mode : DYNAMIC/ STANDARD/ LIVING																		
			UV/ VIDEO	Comp. 480i	Comp. 480p	Comp. 1080i	Comp. 1035i	Comp. 720p	TWIN/ INDEX												
#7	AXIS		2	2	2	2	2	2	2												
			AI Mode : STANDARD					AI Mode : LIVING					AI Mode : AV PRO								
			UV/ VIDEO	Comp. 480i	Comp. 480p	Comp. 1035i/ 1080i	TWIN/ INDEX	UV/ VIDEO	Comp. 480i	Comp. 480p	Comp. 1035i/ 1080i	TWIN/ INDEX	UV/ VIDEO	Comp. 480i	Comp. 480p	Comp. 1035i/ 1080i	TWIN/ INDEX					
#8	UGAM		4	4	4	4	4	4	4	4	4	4	0	0	0	0	0				
			AI Mode : STANDARD					AI Mode : LIVING					AI Mode : AV PRO								
			UV/ VIDEO	Comp. 480i	Comp. 480p	Comp. 1035i/ 1080i	TWIN/ INDEX	UV/ VIDEO	Comp. 480i	Comp. 480p	Comp. 1035i/ 1080i	TWIN/ INDEX	UV/ VIDEO	Comp. 480i	Comp. 480p	Comp. 1035i/ 1080i	TWIN/ INDEX					
#13	UBLK		5	5	5	5	4	5	5	5	5	4	0	0	0	0	0				

CRT Driver CXA2150D-1 (Deflection Controls:D1)

Reg.No & Name		FUNCTION	Data
0	VPOS	V POSITION: Vertical position (V DRV signal DC bias)	23
1	VSIZ	V SIZE: Vertical size (V DRV signal gain)	28
2	VLIN	V LINEARITY: Vertical linearity	9
3	VSCO	S CORRECTION: Vertical S-correction	7
4	VCEN	VSAW0 DCH/VSAW0 DCL: Vertical center adjustment	20
5	VPIN	VSAW0 AMP: Vertical PIN adjustment	*1
6	NSCO	VSAW1 DC: Rotation	7
7	HTPZ	VSAW1 AMP: Horizontal trapezoid	15
8	ZOOM	ZOOM SW: Zoom switch	*2
9	APSW	ASP SW: Aspect switch	*3
10	ASPT	V ASPECT: Aspect ratio	*3
11	SCRL	V SCROLL: Vertical scroll	*3
12	UVLN	UP VLIN: Upper vertical linearty	*2
13	LVLN	LO VLIN: lower vertical linearty	*2

***1**

No.	Name	V Comp.	4:3
5	VPIN	15	15

***2**

No.	Name	V Comp.	4:3
8	ZOOM	0	0
12	UVLN	0	0
13	LVLN	0	0

***3**

No.	Name	V Comp.		4:3		
		960i	1080i	960i	1035i	1080i
9	APSW	1	0	1	0	0
10	ASPT	33	34	31	10	30
11	SCRL	33	33	32	32	32

CRT Driver CXA2150D-2 (Deflection Controls:D2)

Reg.No & Name		FUNCTION	Data
0	HCNT	HC PARA DC: Horizontal center	31
1	HPOS	H POSTION: Horizontal position	*1
2	HSIZ	H SIZE: Horisontal size	*2
3	SLIN	MP PARA DC: Horizontal S-correction	*2
4	MPIN	MP PARA AMP: Horizontal middle pin	*2
5	PIN	PIN AMP: Horizontal pin	*2
6	UCP	UP CPIN: Upper corner pin	*2
7	LCP	LO CPIN: Lower corner pin	*2
8	UXCG	UP UCG: Upper extra corner pin gain	*2
9	LXCG	LO UCG: Lower extra corner pin gain	*2
10	UXCP	UP UCP: Upper extra corner pin position	*2
11	LXCP	LO UCP: Lower extra corner pin position	*2
12	XCPP	UC POL: Extra corner pin polarity	*2
13	PPHA	PIN PHASE: Pin phase	31
14	VANG	AFC ANGLE: AFC angle	31
15	LANG	HC PARA PHASE: Linearity angle	31
16	VBOW	AFC BOW: AFC bow	31
17	LBOW	HC PARA AMP: Linearity bow	31

***1**

No.	Name	1035i/1080i(MID)		1035i/1080i (ANALOG)
		V Comp.	4:3	
1	HPOS	31	31	31

***2**

No.	Name	Not WIDEZOOM
2	HSIZ	34
3	SLIN	26
4	MPIN	10
5	PIN	47
6	UCP	41
7	LCP	44
8	UXCG	2
9	LXCG	3
10	UXCP	2
11	LXCP	3
12	XCPP	0

RM-970

CRT Driver CXA2150D-3 (Deflection Controls:D3)

Reg.No & Name		FUNCTION	Data
0	HBLK	HBLK SW: Horizontal blanking switch	1
1	LBLK	LEFT BLK: Left blanking	*1
2	RBLK	RIGHT BLK: Right blanking	*1
3	VBLK	VBLK SW: Vertical blanking switch	*2
4	TBLK	UP BLK: Top blanking	*3
5	BBLK	LO BLK: Bottom blanking	*3
6	VCMP	V COMP: Vertical compensation	*3
7	HCMP	H COMP: Horizontal compensation	*2
8	ACMP	AFC COMP: AFC compensation	*2
9	PCMP	PIN COMP: Pin compensation	*2
10	AFCM	AFC MODE: AFC compensation	*1
11	VFRQ	V FREQ: Vertical frequency	1
12	VON	V ON: Vertical drive on	1
13	JUMP	JMP SW: Reference pulse jump switch	*4
14	VDJP	VDRV SW: Vertical drive switch	*3
15	VDST	RST SW: Vertical drive start switch	*3
16	EWDC	EW DC: Pin DC level shift	*4
17	AKBT	AKBTIM: AKB timing	*3
18	AVHS		31
19	AVPN		31

***1**

No.	Name	1035i/1080i MID	1035i/1080i ANALOG
1	LBLK	43	50
2	RBLK	25	27
10	AFCM	3	2

***2**

No.	Name	V Comp.	4:3
3	VBLK	1	1
7	HCMP	0	0
8	ACMP	0	0
9	PCMP	0	0

***3**

No.	Name	V Comp.		4:3		
		960i	1080i	960i	1035i	1080i
4	TBLK	1	10	2	5	5
5	BBLK	14	14	6	5	4
6	VCMP	0	0	0	0	0
14	VDJP	0	1	0	1	1
15	VDST	0	0	0	0	1
17	AKBT	18	15	18	16	9

***4**

No.	Name	V Comp.	4:3
13	JUMP	1	0
16	EWDC	0	0

Component I/F & Sync Separation CXA2151

Reg.No	& Name	FUNCTION	Data
0	31MT	31MAT OUT	*1
1	33MT	33MAT OUT	*1
2	45MT	45MAT OUT	*1
3	GAIN	GAIN SEL	0
4	CBGN	CBGAIN	*3
5	VTC	V TC	1
6	HWID	H WIDTH	1
7	HSEP	HSEP SEL	*2
8	TEST	TEST	0
9	FRGB		0
10	HMSK	Hsync masking in vertical retrace	*3

***1**

No.	Name	COMP1	COMP2
0	31MT	0	0
1	33MT	1	1
2	45MT	1	1

***2**

No.	Name	In1 (COMP1)	In2 (COMP2)
7	HSEP	0	0

***3**

No.	Name	MID	ANALOG
4	CBGN	9	8
10	HMSK	0	0

D-CONV

No.	Name	Function	Data
0	SBHS		*1
1	YBWU		*1
2	YBWL		*1
3	RSAP		*1
4	RUBW		*1
5	RLBW		*1
6	LSAP		*1
7	LUBW		*1
8	LLBW		*1
9	CADJ		31
10	SSHS		*1
11	SYBU		*1
12	SYBL		*1
13	SRAP		*1
14	SRUB		*1
15	SRLB		*1
16	SLAP		*1
17	SLUB		*1
18	SLLB		*1

***1**

No.	Name	V Comp.	4:3
0	SBHS	31	31
1	YBWU	31	31
2	YBWL	31	31
3	RSAP	35	35
4	RUBW	42	42
5	RLBW	45	45
6	LSAP	33	33
7	LUBW	48	48
8	LLBW	40	40
10	SSHS	7	7
11	SYBU	7	7
12	SYBL	7	7
13	SRAP	7	7
14	SRUB	7	7
15	SRLB	7	7
16	SLAP	7	7
17	SLUB	7	7
18	SLLB	7	7

RM-970

CXA2026

No.	Name	Function	Data
0	DFON		0
1	DQP		*1
2	DF		*1
3	DQPD		*1
4	QPDV		*1
5	DVS		*1
6	QPDY		*1
7	DQPA		*1
8	QPAV		*1
9	AVS		*1
10	NORM		*1
11	SQPD		*1
12	SQDV		*1
13	SQDY		*1
14	SQPA		*1
15	SQAV		*1
16	CPY2		0
17	200V		31

***1** ( ) : ES38K9H

No.	Name	V Comp.	4:3
1	DQP	32	26
2	DF	30	26
3	DQPD	21	38
4	QPDV	48	53 (48)
5	DVS	0	0
6	QPDY	7	7
7	DQPA	31	10 (5)
8	QPAV	36	28
9	AVS	3	3
10	NORM	1	1
11	SQPD	7	7
12	SQDV	7	7
13	SQDY	7	7
14	SQPA	7	7
15	SQAV	7	7

AP ( ) : ES38K9H

No.	Name	Function	BBE:on		BBE:off	
			UV	Other	UV	Other
0	VOL		0	0	0	0
1	TRE		4	3 (5)	4	3
2	BASS		4	4 (5)	3	3
3	BBE		1	1	0	0
4	BBEB		3 (6)	3 (4)	0	0
5	BBET		3 (4)	4 (2)	0	0
6	AGC		0	0	0	0
7	SREF		7	7	7	7

AUTO-WIDE

No.	Name	Function	Data						
			UV	VIDEO1	VIDEO2	VIDEO3	VIDEO4	COMP1	COMP2
0	AWTM		2	2	2	2	2	2	2
1	UPLV		0	0	0	0	0	0	0
2	OFLV		0	0	0	0	0	0	0
3	EDSC		0	0	0	0	0	1	1
4	EDD1		2	1	1	1	1	1	1
5	EDD2		1	1	1	1	1	1	1

MID-X1 (Display Data : Output)

Reg.No & Name		FUNCTION	Data
0	DHPH	H active display area phase	91
1	DVPH	V active display area phase	20
2	DHAR	H active display area size	240
3	DVAR	V active display area size	135
4	DHPW	display H pulse width	27
5	DVPW	display V pulse width	7
6	DYCD	display output Y-C delay correction	*1
7	DYSD	display output YS signal delay select	*1
8	MDHP	main display picture H position	*2
9	MDVP	main display picture V position	*3
10	MDHS	main display picture H size	*2
11	MDVS	main display picture V size	*3
12	MLHP	multi picture mode H position	*4
13	MLVP	multi picture mode V position	*4
14	SDHS	sub display picture H position	*5
15	SDVS	sub display picture V position	*5
16	SDHS	sub display picture H size	*6
17	SDVS	sub display picture V size	*6
18	PDHP	(PinP Large mode H position)	*7
19	PDVS	(PinP Large mode V position)	*7
20	PDHS	(PinP Large mode H size)	–
21	PDVS	(PinP Large mode V size)	–
22	DPSW	display PLL switch	1
23	MDL	model select (16:9/4:3)	0
24	BCOL	Background Y level	*8

***1**

No.	Name	NORMAL	Not NORMAL
6	DYCD	2	2
7	DYSD	2	1

***2**

No.	Name	Single		Favorite
		NORMAL	Not NORMAL	
8	MDHP	166	33	9
10	MDHS	164	230	160

***3**

No.	Name	480i/480p	1035i	1080i	720p	Favorite
9	MDVP	32	8	8	4	27
11	MDVS	120	135	135	135	81

***4**

No.	Name	INDEX	Other
12	MLHP	88	50
13	MLVP	55	28

***5**

No.	Name	Favorite	PinP	
			Left	Right
14	SDHP	171	24	148
15	SDVP	27	84	84

***6**

No.	Name	Favorite	PinP
16	SDHS	61	62
17	SDVS	37	31

***7**

No.	Name	Left	Right
18	PDHP		
19	PDVP		

***8**

No.	Name	Single	Other
24	BCOL	5	5

MID-X2 (Active Data for DRC : INPUT))

Reg.No & Name		FUNCTION	Data
0	DRHP	DRC H active area position	*1
1	DRHS	DRC H active area size	*1
2	DRVP	DRC V active area position	*1
3	DRVS	DRC V active area size	*1

***1**

No.	Name	Single											
		NORMAL		Not NORMAL		TWIN		MEMO		INDEX			
		480i(YC)	480i	480i(YC)	480i	480i(YC)	480i	480i(YC)	480i	480I(YC)	480I	TWIN Sub	INDEX Sub
0	DRHP	136	134	120	116	131	129	138	136	134	132	137	137
1	DRHS	166	166	174	174	167	167	165	165	166	166	168	167
2	DRVP	38	38	38	38	53	53	53	53	58	37	53	53
3	DRVS	120	120	120	120	112	112	112	112	110	120	112	112

RM-970

MID-X3 (Active Data for A/D (VDO) : INPUT)

Reg.No & Name		Function	Data
0	VDHP	VDO H active area position	*1
1	VDHS	VDO H active area pixel size	*1
2	VDVE	VDO V active area even position	*1
3	VDVS	VDO V active area line size	*1
4	VDVO	VDO V active area line size	*2
5	VCPO	VDO V active area odd position	*2
6	VCWD	VDO clamp pulse output timing	*2
7	VYCD	VDO clamp pulse width	*2
8	VSTP	VDO PLL phase ditect stop line count	*3
9	VSTT	VDO PLL phase ditect start line count	*3
10	VHSC	VDO H sync cycle	130
11	VFRV		*2

***1**

No.	Name	Single NORMAL				Single Not NORMAL			
		480p	1080i	720p	480i	480p	1035i	1080i	720p
0	VDHP	131	99	109	179	118	99	99	100
1	VDHS	153	149	100	199	159	149	149	104
2	VDVE	39	26	27	24	39	26	26	27
3	VDVS	120	135	180	56	120	135	135	180

No.	Name	TWIN Main				MEMO Main				INDEX Main			
		480p	1035i	1080i	720p	480p	1035i	1080i	720p	480p	1035i	1080i	720p
0	VDHP	127	91	91	107	131	98	98	110	127	94	94	106
1	VDHS	154	151	151	101	153	149	149	100	154	150	150	101
2	VDVE	53	56	37	50	53	56	37	50	35	41	20	27
3	VDVS	112	120	126	167	112	120	126	167	121	129	135	180

No.	Name	TWIN Sub	TWIN Main	INDEX Sub	INDEX Main	Single Not NORMAL	MEMO Main
		480i(YC)	480i	480i(YC)	480i	480i	480i
0	VDHP	197	179	196	179	179	179
1	VDHS	219	199	217	199	199	199
2	VDVE	24	24	24	24	24	24
3	VDVS	56	56	56	56	56	56

***2**

No.	Name	480i(YC)	480i	480p	1035i	1080i	720p
4	VDVO	0	0	0	0	0	0
5	VCPO	95	90	70	40	40	40
6	VCWD	3	3	3	3	3	3
7	VYCD	0	0	0	0	0	0
11	VFRV	0	0	0	0	0	0

***3**

No.	Name	480p	1080i	720p	1035i
8	VSTP	119	160	145	157
9	VSTT	7	0	0	0

MID-X5 (Picture Data) (A) Enhance Table Data Setting

0	P-OP	Table select	MIDE=0	MIDE=1	MIDE=2	MIDE=3	MIDE=4	MIDE=5	MIDE=6	MIDE=7
1	MHLY	Main H LPF Y Coefficient select	3	3	3	3	1	1	1	1
2	MHLC	Main H LPF C Coefficient select	3	3	3	3	3	3	3	3
3	MVLY	Main V LPF Y Coefficient select	0	0	0	0	0	0	0	0
4	MVLC	Main V LPF C Coefficient select	0	0	0	0	0	0	0	0
5	MHYR	Main H Enhance. Y Coreing level	0	1	1	1	0	1	1	1
6	MHYL	Main H Enhance. Y Clip level	1	1	1	1	1	1	1	1
7	MHYE	Main H Enhance. Y Enhancement level	5	5	5	5	5	5	5	5
8	MHYO	Main H Enhance. Y Coefficient select	1	1	1	1	0	0	0	0
9	MHCR	Main H Enhance. C Coreing level	2	2	2	2	2	2	2	2
10	MHCL	Main H Enhance. C Clip level	1	1	1	1	1	1	1	1
11	MHCE	Main H Enhance. C Enhancement level	2	4	4	5	2	4	4	5
12	MHCO	Main H Enhance. C Coefficient select	1	1	1	1	1	1	1	1
13	MVYR	Main V Enhance. Y Coreing level	1	1	1	1	1	1	1	1
14	MVYL	Main V Enhance. Y Clip level	1	1	1	1	1	1	1	1
15	MVYE	Main V Enhance. Y Enhancement level	0	2	2	3	0	2	2	3
16	MVCR	Main V Enhance. C Coreing level	2	2	2	2	2	2	2	2
17	MVCL	Main V Enhance. C Clip level	1	1	1	1	1	1	1	1
18	MVCE	Main V Enhance. C Enhancement level	0	2	2	3	0	2	2	3
0	P-OP	Table select	MIDE=8	MIDE=9	MIDE=10	MIDE=11	MIDE=12	MIDE=13	MIDE=14	MIDE=15
1	MHLY	Main H LPF Y Coefficient select	1	1	1	1	0	1	1	1
2	MHLC	Main H LPF C Coefficient select	3	3	3	3	0	3	3	3
3	MVLY	Main V LPF Y Coefficient select	0	0	0	0	0	0	0	0
4	MVLC	Main V LPF C Coefficient select	0	0	0	0	0	0	0	0
5	MHYR	Main H Enhance. Y Coreing level	0	1	1	1	1	0	1	1
6	MHYL	Main H Enhance. Y Clip level	1	1	1	1	1	1	1	1
7	MHYE	Main H Enhance. Y Enhancement level	5	5	5	5	4	6	6	6
8	MHYO	Main H Enhance. Y Coefficient select	0	0	0	0	1	1	1	1
9	MHCR	Main H Enhance. C Coreing level	2	2	2	2	1	1	1	1
10	MHCL	Main H Enhance. C Clip level	1	1	1	1	1	1	1	1
11	MHCE	Main H Enhance. C Enhancement level	2	4	4	5	7	7	7	7
12	MHCO	Main H Enhance. C Coefficient select	1	1	1	1	0	1	1	1
13	MVYR	Main V Enhance. Y Coreing level	1	1	1	1	1	1	1	1
14	MVYL	Main V Enhance. Y Clip level	1	1	1	1	0	0	0	0
15	MVYE	Main V Enhance. Y Enhancement level	0	3	3	4	0	0	3	4
16	MVCR	Main V Enhance. C Coreing level	2	2	2	2	1	1	1	1
17	MVCL	Main V Enhance. C Clip level	1	1	1	1	0	0	0	0
18	MVCE	Main V Enhance. C Enhancement level	0	2	2	3	0	0	2	3

* No.19 - No.36 data is all “0” not to use.

On-Screen Display (OSD)

Reg.No & Name		FUNCTION	
0	HPOS	OSD horizontal position	11
1	VPOS	OSD vertical position	*1

***1**

No.	Name	WIDEZOOM	ZOOM	TITLE	FULL	NORMAL	TWIN	INDEX
1	VPOS	8	8	8	6	6	0	0

SNNR

Reg.No & Name		FUNCTION					
0	SNNR	SNNR data setting	0	1	2	3	
1	SNFX	Selection of SNNR data setting	0				
2	WSLT	Noise level detection data thresholds for SNNR data (read data)	0 -30	31 -62	63 -126	127 -255	
		SNNR Settings based on WSL Data					
	SNNR=0/1/2/3		0	1	2	3	
3	CPFG	Related to 3D-COMB (upD64802) / #19 YPFG settings	0	1	2	3	SNNR data is used for the (-) offset setting.
4	CPFT	Related to 3D-COMB (upD64802) / #18 YPFT settings	0	0	0	0	
5	CCOR	Related to 3D-COMB (upD64802) / #20 VHCO settings	0	1	1	1	SNNR data is used for the direct setting.
6	CHCG	Related to 3D-COMB (upD64802) / #21 VHCG settings	1	1	1	1	
7	CAPG	Related to 3D-COMB (upD64802) / #16 VAPG settings	0	0	0	0	
8	3SHP	Related to CXA2103 / #6 SHAP settings	0	0	1	1	
9	MIDD	Related to CXA2150P-3 / #19 MIDE settings	0	1	2	3	
10	5SHP	Related to CXA2150P-4 / #4 USHP settings	0	0	1	2	SNNR data is used for the (-) offset setting.
11	5YF1	Related to CXA2150P-3 / #10 F1LV settings	0	1	2	3	
12	5CDS	Related to CXA2150P-3 / #11 CDSP settings	0	0	0	0	
13	5LTI	Related to CXA2150P-3 / #12 LTLV settings	0	0	0	0	
14	5CTI	Related to CXA2150P-3 / #14 CTLV settings	0	0	0	0	
15	5VML	Related to CXA2150P-3 / #1 UVML settings	0	0	0	0	
16	5VMC	Related to CXA2150P-3 / #3 VMCR settings	0	1	2	3	SNNR data is used for the (+) offset setting.

DRCVR

	Name	Data
0	23PD	*1
1	MFVR	0
2	RESO	*2
3	NOCT	*2
4	FMAT	0
5	FMTH	*1
6	FSEL	*1
7	CDLY	*1
8	LMIT	0
9	LMLV	2
10	LMSL	1
11	VDLY	1
12	VDPR	3
13	WPLL	2
14	CRCT	0
15	VRA1	0
16	VRA2	0
17	VRA3	0
18	VRB1	128
19	VRB2	128
20	VRB3	128
21	CHG1	2
22	CHG2	4
23	CHG3	8
24	STP1	1
25	STP2	2
26	STP3	3
27	STP4	4

*1

No.	Name	UV	VIDEO1	VIDEO2	VIDEO3	VIDEO4	COMP1	COMP2
0	23PD	1	1	1	1	1	1	1
5	FMTH	1	1	1	1	1	1	1
6	FSEL	1	1	1	1	1	1	1
7	CDLY	2	2	2	2	2	2	2

*2

No.	Name	UV		VIDEO		COMP	
		DYNAMIC	STANDARD	DYNAMIC	STANDARD	DYNAMIC	STANDARD
2	RESO	192	192	192	192	192	192
3	NOCT	0	0	0	0	0	0

OP

No.	Name	Function	Data
0	ASHT		1
1	EDFL		0
2	RSVP		0
3	DLY1		4
4	DLY2		20
5	DLY3		7
6	BLK1		40
7	BLK2		40
8	BLK3		40
9	AGCH		3
10	AGCL		8
11	AFTH		149
12	AFTL		87
13	AFDL		8
14	GRDL		0
15	RSGR		1
16	TUON		1
17	NPON		0
18	DHMU		0
19	UBAR		0
20	LBAR		1
21	PCMX		53
22	BRMX		47
23	LBER		12
24	IDXP		12

LANDING

No.	Name	Function	Data
0	NS-C		135
1	EW-C		135
2	L-X		127
3	R-X		127
4	HSFT		127
5	EN-S		1
6	TE-S		1
7	NS-S		1
8	EW-S		1
9	NSGN		60
10	EWGN		31
11	ENGN		74
12	ENNS		55
13	TLDC		31
14	TLUG		29
15	TLLG		25
16	TRDC		27
17	TRUG		20
18	TRLG		41
19	DHMT		0

TP

No.	Name	Function	Data
0	MODL		1
1	3DSW		1

SECTION 4
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control ..... normal
BRIGHTNESS control..... normal

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

4-1. BEAM LANDING

1. Input a white signal with the pattern generator.
   Contrast, Brightness } normal
2. Position neck assy as shown in Fig4-1.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side. (See Figures 4-1 through 4-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 4-2.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 4-4.)

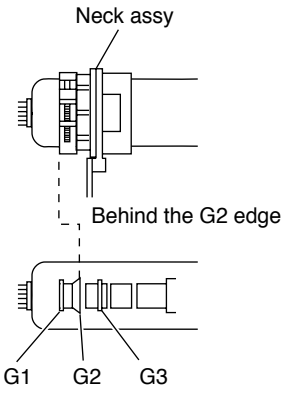


Fig. 4-1

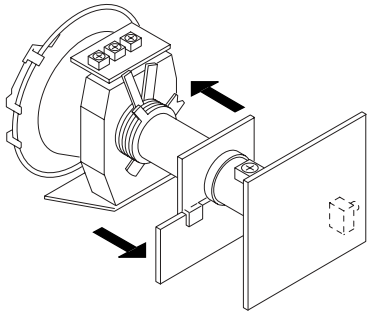


Fig. 4-2

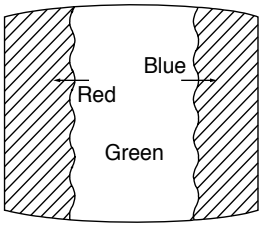


Fig. 4-3

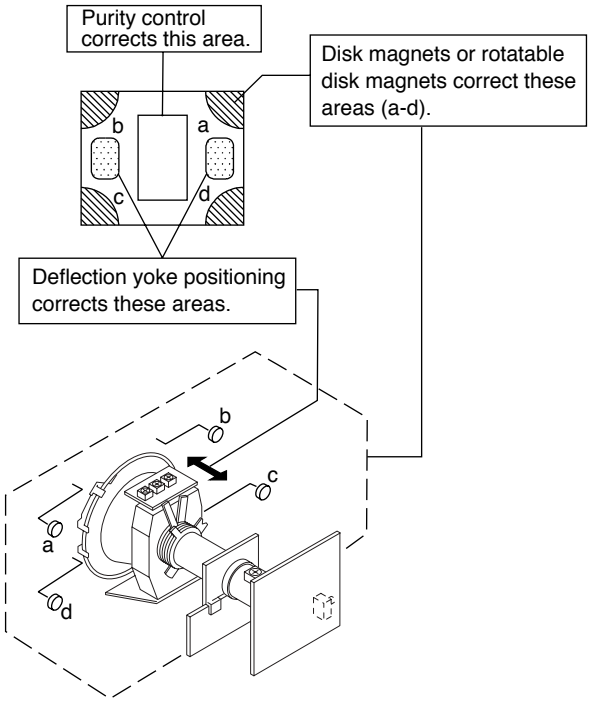


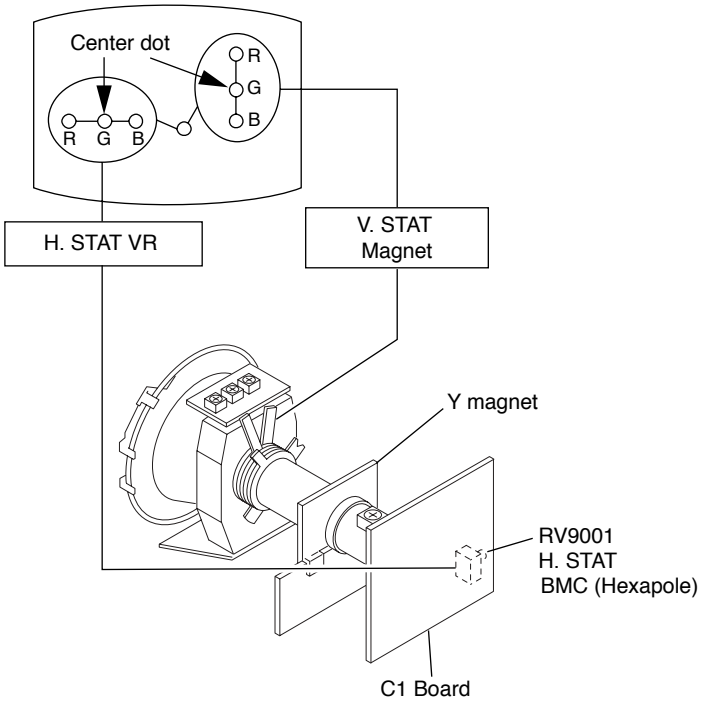
Fig. 4-4

4-2. CONVERGENCE ADJUSTMENT

Preparation :

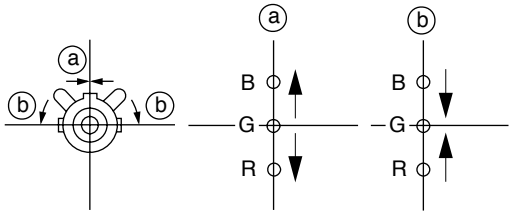
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Set the Picture Mode to “STANDARD”.
- Cross hatch / Dot pattern.

(1) Horizontal and Vertical Static Convergence

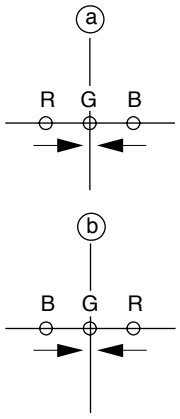


1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)

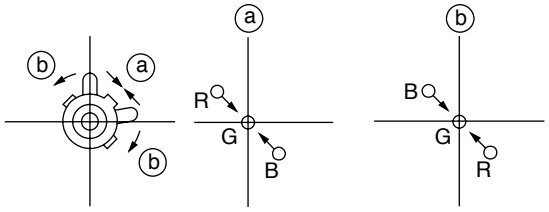
① V. STAT

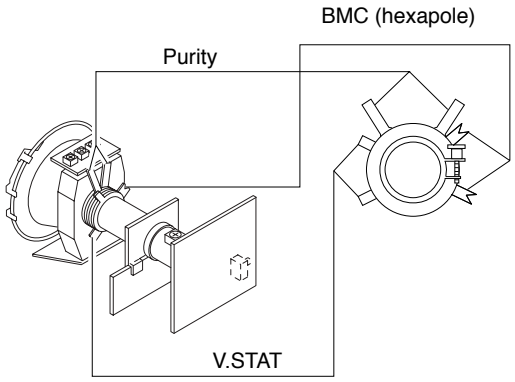


② H. STAT VR

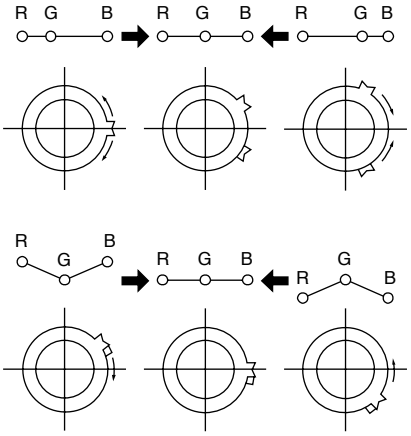


③



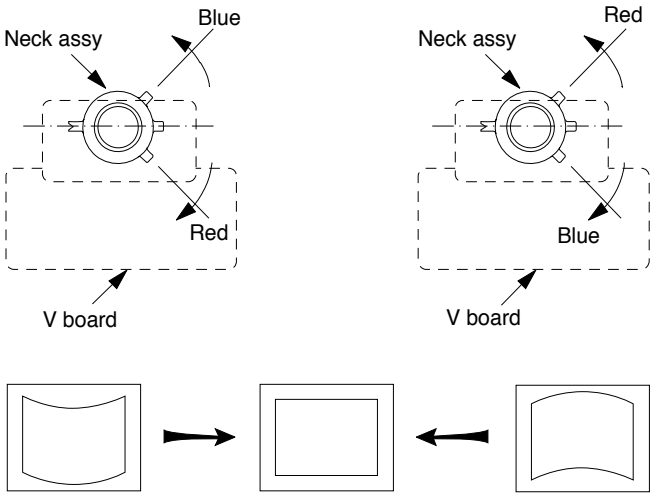


④ BMC (Hexapole) Magnet.
If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



⑤ Y separation axis correction magnet adjustment.

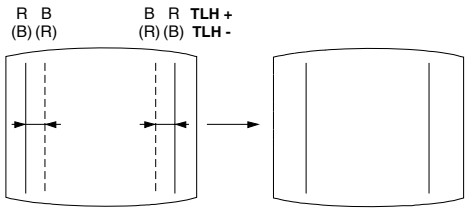
1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .
2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.



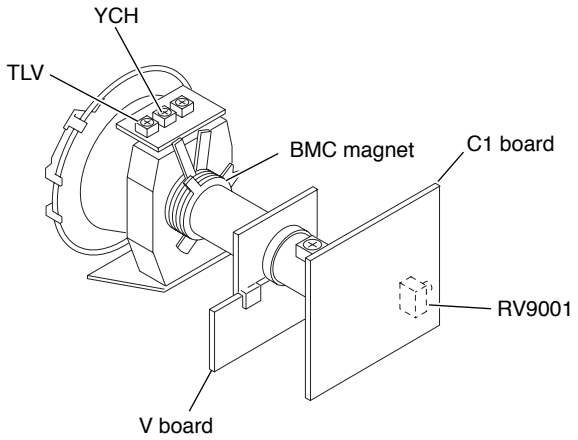
Note
1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

(2) Dynamic Convergence Adjustment
Preparation:
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence
- Set the PICTURE and BRIGHTNESS to normal.

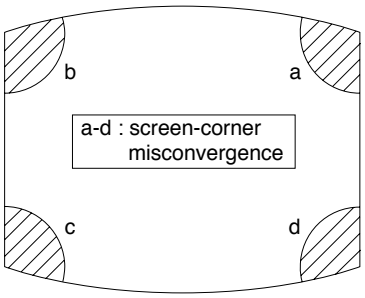
1. Adjust TLH. (TLH correction piece)
① Receive the dot/hatch pattern signal and adjust picture quality by the menu.
② Correct horizontal mis-convergence of red and blue of both sides on the X axis.
When red is outside insert BMC magnet to right side (THL+) views from DY neck. And when blue is outside, insert it to left side (THL–) and take both sides.



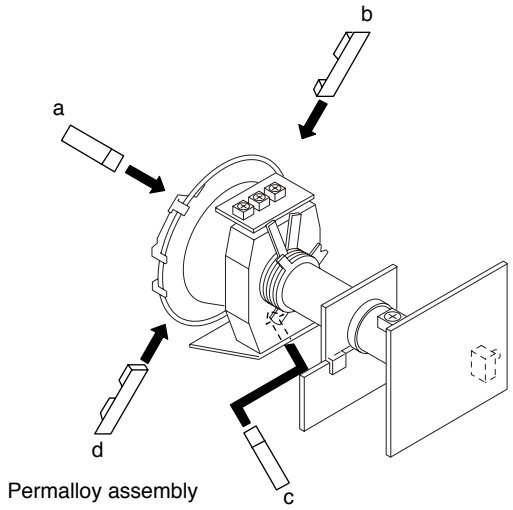
2. Adjust XCV core.
To able to become balance of XCV on the X axis well.
3. Adjust V-TILT.
Correct the vertical mis-convergence of red and blue of vertically sides on the Y axis.
4. Adjust YCH.
Adjust horizontal mis-convergence of red and blue of vertically sides on the Y axis. Mentioned above steps 2 to 4 are adjusting respectively perform minuteness tracking.



(3) Screen-corner Convergence



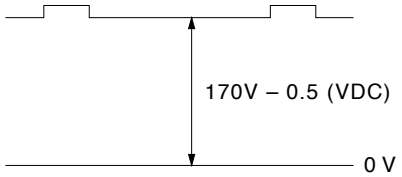
Fix a Permalloy assy corresponding to the misconverged areas.



4-3. G2 (SCREEN) ADJUSTMENT

1. G2 (SCREEN) ADJUSTMENT

1) Set to zoom mode and the PICTURE and BRIGHTNESS to normal and to the service mode.
2) In put monoscope signal.
3) Set the service data. CXA2150P-210: ABLK10
4) Connect R, G and B of the C board cathode to the oscilloscope.
5) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
6) Whilst watching the picture, adjust the screen VR (RV9002) located on the C1 board to the point just before the flyback return lines disappear (to the point before cut-off)

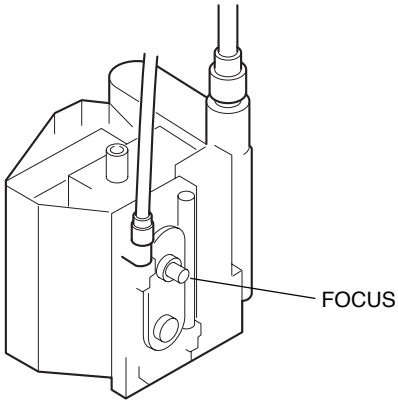


4-4. FOCUS ADJUSTMENT 1

Note

Focus adjustment should be completed before W/B adjustment.

(1) Receive digital monoscope pattern.
(2) Set DRC-MF to "Progressive" and PICTURE to "Standard".
(3) Adjust FOCUS VR so that the center of the screen becomes justfocus.



FLYBACK TRANSFORMER (T8001)

4-5. NECK ASSY TWIST ADJUSTMENT

(1) Receive dot/hatch pattern.
(2) Turn FOCUS VR fully counter-clockwise.
(3) Confirm the dot shape at the screen center. (Fig. 4-5)
(4) Resume FOCUS VR.

Note

In case of turning NECK ASSY, loosen the screw 3 turns. Do not move the position.

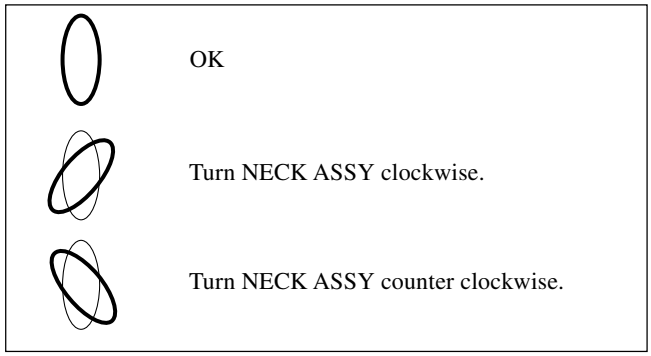


Fig. 4-5

4-6. P & P SUB CONTRAST ADJUSTMENT (VIDEO) (SCON)

1. Receive the signal.
   TV terminal (sub) : Color-bar (white-75%, No setup)
   VIDEO terminal (main) : Color-bar (white-75%, No setup)
2. VIDEO MODE : AV Pro
   PICTURE : maximum
   COLOR : minimum
   RGB Signal : off
3. Set to P & P mode, and set to service mode.
4. Set the service data.

2150P-2	1: RGBS	4
2150P-4	0: UPIC	53

5. Connect an oscilloscope between the check point and ground.
   Check points : CN202 pin ③ (G-DRV)
   (A1 Board)
6. Select " 2103-1-02 "(Main scon), and adjust so that the waveform level of VWB is 1.67 ± 0.07Vp-p.
7. Select " 2103-2-02 "(Sub scon), and adjust so that the waveform level of VWB is 1.67 ± 0.07Vp-p.
8. Write the data into memory.
   조용히 → 입력

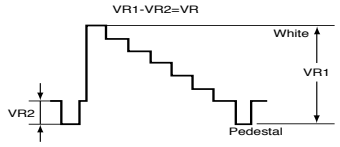


Fig. 4-1

4-7. P & P SUB CONTRAST ADJUSTMENT (RF) (SCON)

1. Receive the signal.
   TV terminal (main) : Color-bar (white-75%, No setup)
   VIDEO terminal (sub) : Color-bar (white-75%, No setup)
2. VIDEO MODE : AV Pro
   PICTURE : maximum
   COLOR : minimum
   RGB Signal : off
3. Set to P & P mode, and set to service mode.
4. Set the service data.

2150P-2	1: RGBS	4
2150P-4	0: UPIC	53

5. Connect an oscilloscope between the check point and ground.
   Check points : CN5 pin ⑥ (G)
   (A Board)
6. Select " 2103-1-02 "(Main scon), and adjust so that the waveform level of VWB is 2.00 (1.67) ± 0.04Vp-p.
7. Select " 2103-2-02 "(Sub scon), and adjust so that the waveform level of VWB is 2.00 (1.67) ± 0.04Vp-p.
8. Write the data into memory.
   MUTING → ENTER
   조용히 → 입력

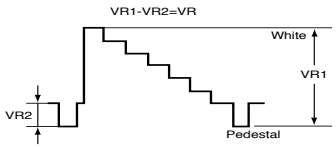


Fig. 4-2

4-8. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (VIDEO) (SHUE, SCOL)

1. Receive the signal.
   TV terminal (sub) : Color-bar (white-75%, No setup)
   VIDEO terminal (main) : Color-bar (white-75%, No setup)
2. VIDEO MODE : AV Pro
   PICTURE : maximum
   COLOR : center
   RGB Signal : on
3. Set to P & P mode, set to service mode.
4. Connect an oscilloscope between pin ⑤ (B-DRV) of CN202 (A board) connecter and ground.
5. Select " 2103-1-03 SCOL, -04 SHUE "(Main), and adjust them to have VB1 ≦ VB4 and VB2 ≦ VB3 in the waveform levels.
6. Select " 2103-2-03 SCOL, -04 SHUE "(Sub), and adjust them to have VB1 ≦ VB4 and VB2 ≦ VB3 in the waveform levels.
7. Write the data into memory.
   조용히 → 입력

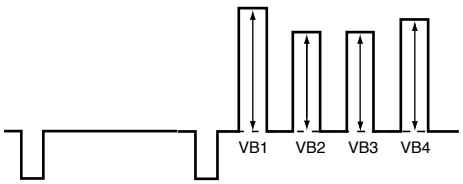


Fig. 4-3

4-9. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (RF) (SHUE, SCOL)

1. Receive the signal.
   TV terminal (main) : Color-bar (white-75%, No setup)
   VIDEO terminal (sub) : Color-bar (white-75%, No setup)
2. VIDEO MODE : AV Pro
   PICTURE : maximum
   COLOR : center
   RGB Signal : on
3. Set to P & P mode, set to service mode.

4. Set the service data.

2150P-2	1: RGBS	7
2150P-4	0: UPIC	40

5. Connect an oscilloscope between pin ⑦ (B) of CN5 (A board) connecter and ground.
6. Select " 2103-1-03 SCOL, -04 SHUE "(Main), and adjust them to have VB1≦ VB4 and VB2≦ VB3 in the waveform levels.
7. Select " 2103-2-03 SCOL, -04 SHUE "(Sub), and adjust them to have VB1≦ VB4 and VB2≦ VB3 in the waveform levels.
8. Write the data into memory.

조용히 → 입력

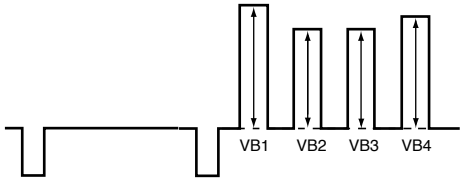


Fig. 4-4

4-10. WHITE BALANCE, SUB BRIGHT ADJUSTMENT

(1). VIDEO MODE : AV PRO
PICTURE : Maximum
COLOR : Minimum
Color Temp.: High
DRC-MF : Progressive

(2). Receive the all white signal and set to full mode screen and to the service mode.

(3). Minimize the cut-offs and make drives normal in the following items.
2150P-1 "6 GDRV"
"7 BDRV"
"9: GCUT"
"10: BCUT"

(4). Adjust with the cut-offs and the drives mutually the white balance becomes best in the mode the picture is maximum or minimum.

(5). Sub bright adjustment

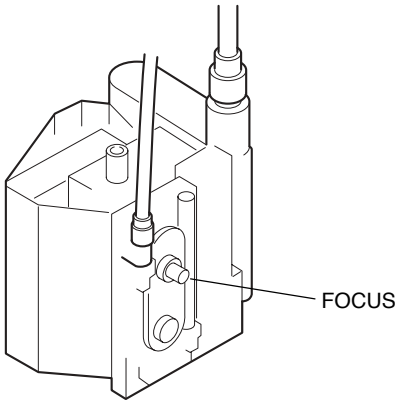
- Receive the monoscope signal under the condition PICTURE: Minimum, Brightness: Center, Color Temp.: High.
- Adjust "2150-P 4: SBRT" so that the monoscope pattern 10RE is just cut off and add +2 to the data.

4-11. FOCUS ADJUSTMENT 2

Note

Focus adjustment should be completed before W/B adjustment.

(1) Receive digital monoscope pattern.
(2) Set DRC-MF to "Progressive" and PICTURE to "Standard".
(3) Adjust FOCUS VR so that the center of the screen becomes justfocus.
(4) Change the receiving signal to white pattern and blue back.
(5) Confirm MAGENTA RING should not be over the limit sample. In case MAGENTA RING is over the limit sample, adjust FOCUS VR to take tracking of MAGENTA RING and FO-CUS.



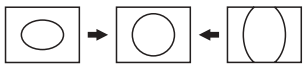
FLYBACK TRANSFORMER (T8001)

4-12. PICTURE DISTORTION ADJUSTMENT

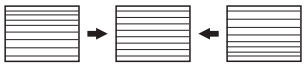
Note: In this adjustment use the monoscope signal.
Adjust in the service mode "2150D-1" and "2150D-2".

1 (VPOS)-2150D-1

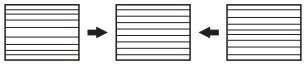
2 (VSIZ)-2150D-1



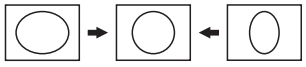
3 (VLIN)-2150D-1



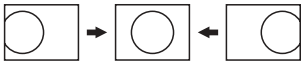
4 (VSCO)-2150D-1



5 (HSIZ)-2150D-2



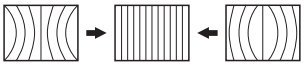
6 (HPOS)-2150D-2



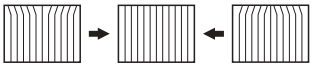
7 (PIN)-2150D-2

8 (UCP)-2150D-2

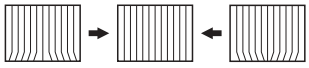
9 (LCP)-2150D-2



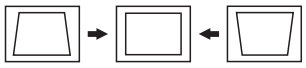
10 (PPHA)-2150D-2



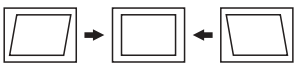
11 (VANG)-2150D-2



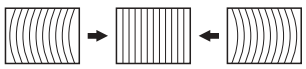
12 (VBOW)-2150D-2



13 (ASPT)-2150D-1

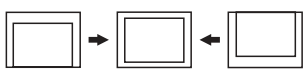


14 (SCRL)-2150D-1



15 (LVLN)-2150D-1

16 (UVLN)-2150D-1



SECTION 5
SAFETY RELATED ADJUSTMENTS

[D BOARD]

5-1. +B MAX VOLTAGE CONFIRMATION

1. Supply 242 $\pm^{2}_{0}$ VAC to variable autotransformer.
2. Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
3. Confirm the voltage of CN5509 Pin ⑨ is 135.3 ± 1.0 dc.

5-2. HV REGULATION CIRCUIT ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram always check HV regulation, and if necessary re-adjust.

⧓: RV8002
◪: C8037, C8064
IC8002, IC8003, IC8004
R8072, R8073, R8074, R8091, R8095,
PH8001
T8001 (FBT)
D board

HV REGULATION ADJUSTMENT

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Receive the dot signal.
4. Set PIC MIN/BRT MIN.
5. Confirm that the static voltmeter reading is 30.5 ± 0.5kVDC.
6. If not, adjust with RV8002 to the specified value.

5-3. HV PROTECTOR CIRCUIT ADJUSTMENT

When replacing the following components marked with ◪ on the schematic diagram always check hold-down voltage and if necessary re-adjust.

⧓: RV8001
◪: D8014
IC8001
R8021, R8028, R8077, R8078, R8080,
R8081
T8001 (FBT)
D board

HV HOLD-DOWN ADJUSTMENT

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Receive the dot signal.
4. Set PIC MIN/BRT MIN.
5. Turn RV8001 counterclockwise.
6. Adjust VR8002 to the 34.30 ± 0.3kVDC reading on the static voltmeter.
7. After adjustment, turn RV8001 clockwise slowly, and stop if the HV.PROT circuit works.

5-4. IK PROTECTOR CIRCUIT CHECK (D BOARD)

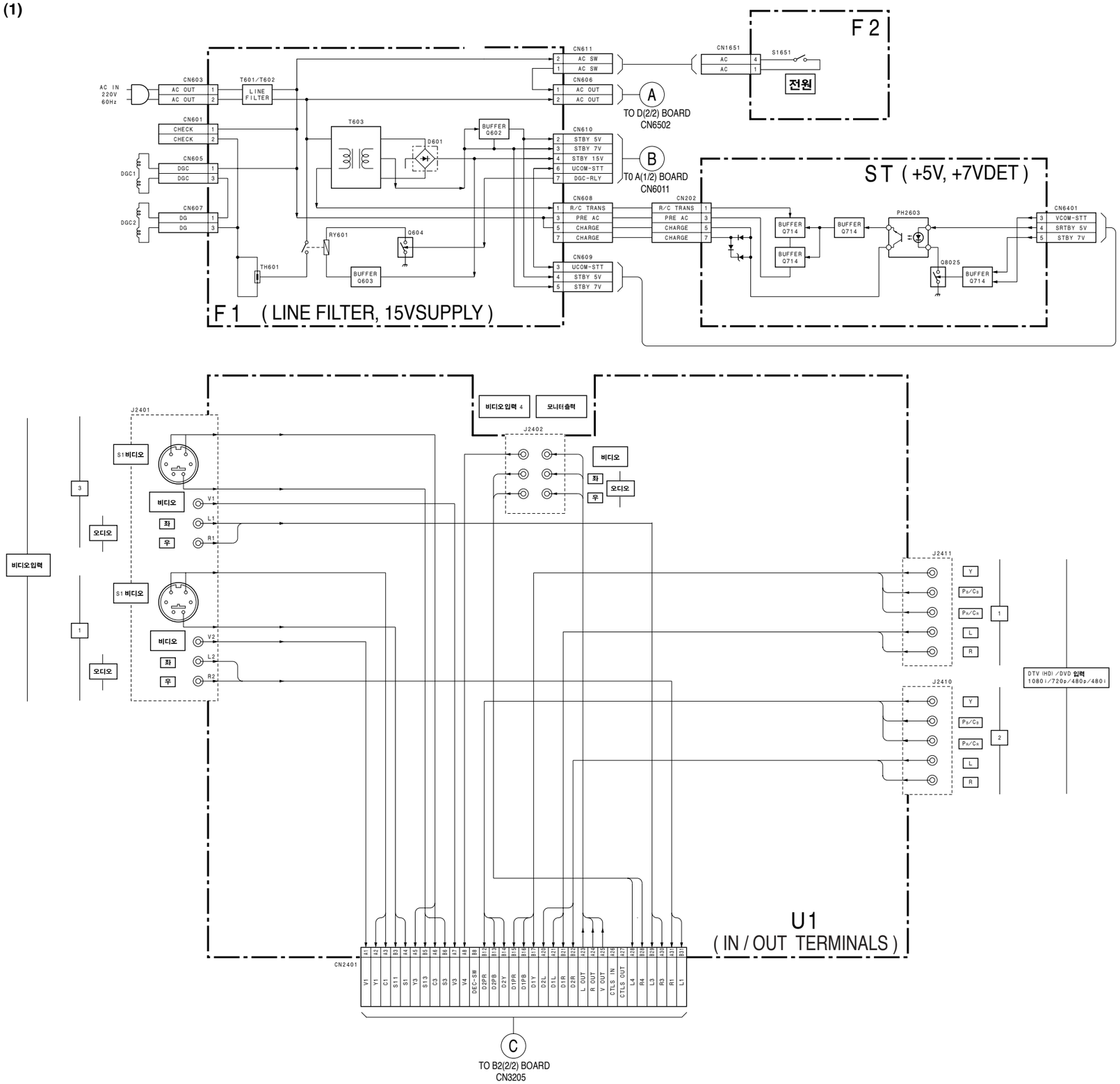
When replacing the following components marked with / on the schematic diagram, always check IK protector circuit.

◪: D8004
IC8001
Q8007,Q8008
R8027, R8029, R8030, R8031, R8035, R8036,
R9037, R9038, R8039, R8040, R8041
D board

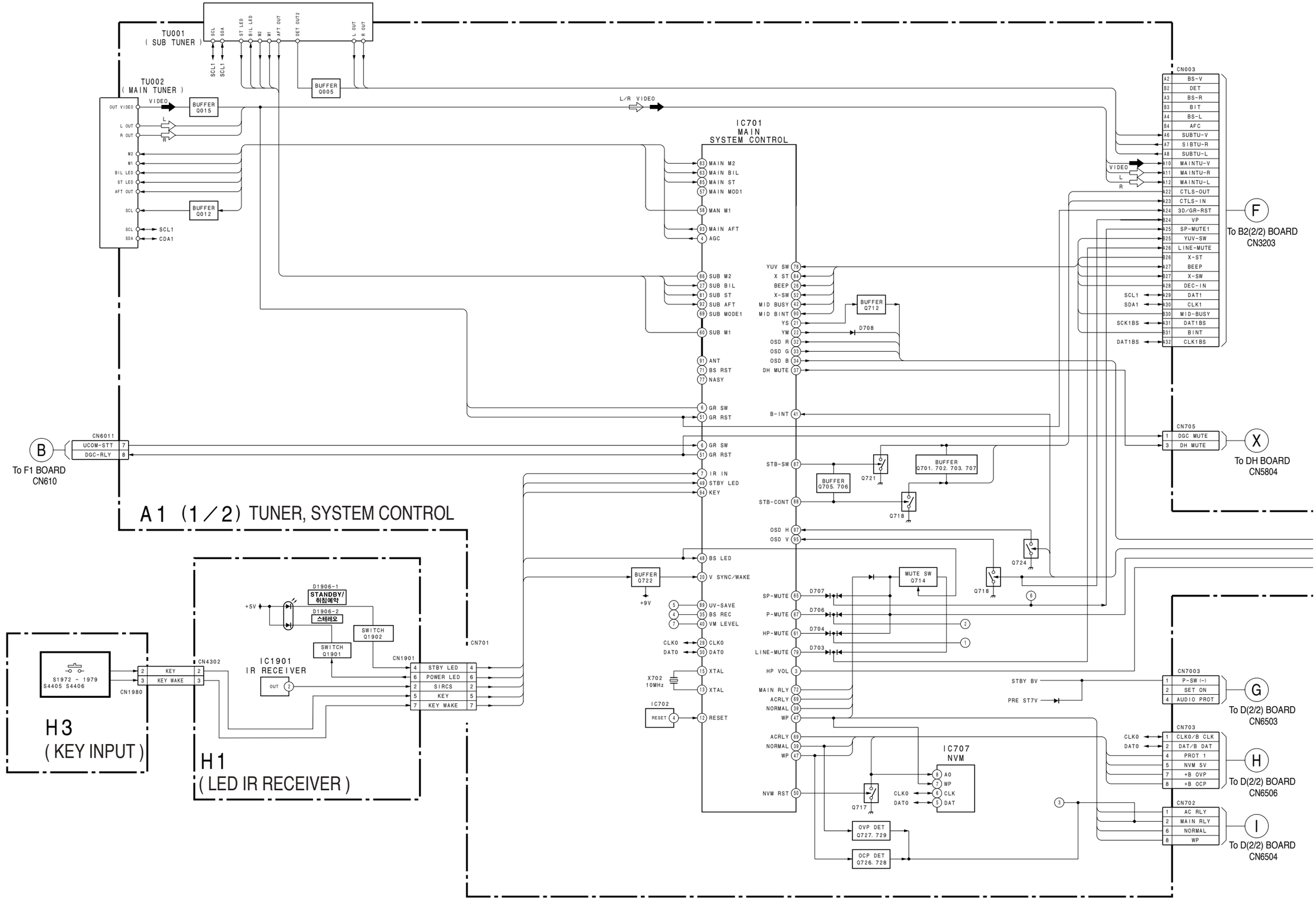
1. Unsolder T8001 (FBT) Pin 1 and connect a DC current meter between Pin 1 and the pattern.
2. Remove a lead wire connected to CN201 Pin 1 on A1 board and apply 12VDC to A1 board side from an external DC power supply.
3. Short circuit C8015.
4. Turn power on, feed the dot signal and set the picture and brightness to minimum.
5. Feed the all white signal, increase the picture and brightness slowly and check the hold-down works when the reading on the DC current meter is 2440uA.
6. Turn power off.
7. Release C8015 short-circuit.
8. Short circuit C8012.
9. Turn power on, feed the dot signal and set the picture and brightness to minimum.
10. Feed the all white signal, increase the picture and brightness slowly and check the hold-down works when the reading on the DC current meter is 2440uA.
11. Turn power off.
12. Release C8012 short-circuit.
13. Remove the DC current meter and the external DC power supply and solder the unsolder portions.

SECTION 6
DIAGRAMS

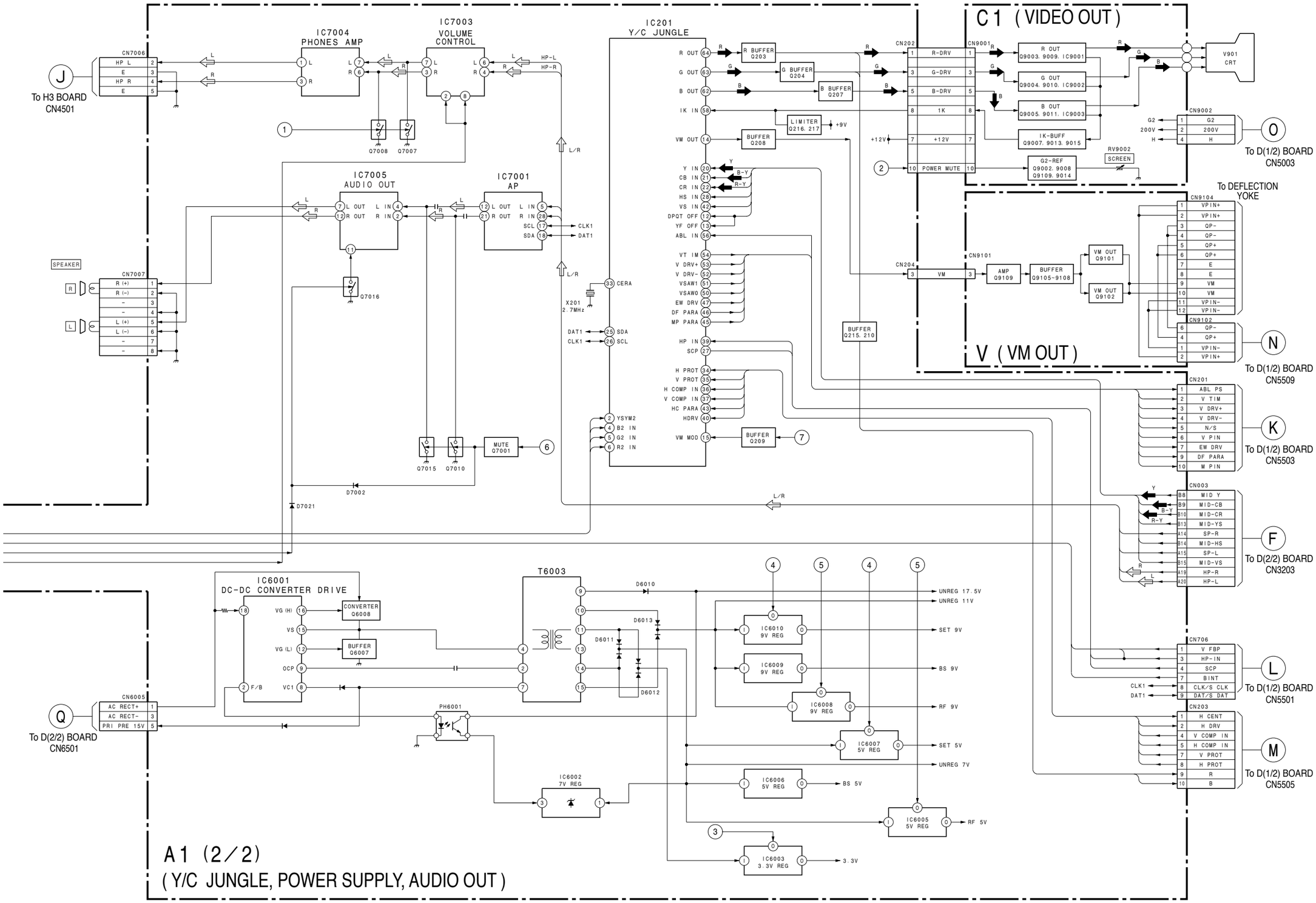
6-1. BLOCK DIAGRAM (1)



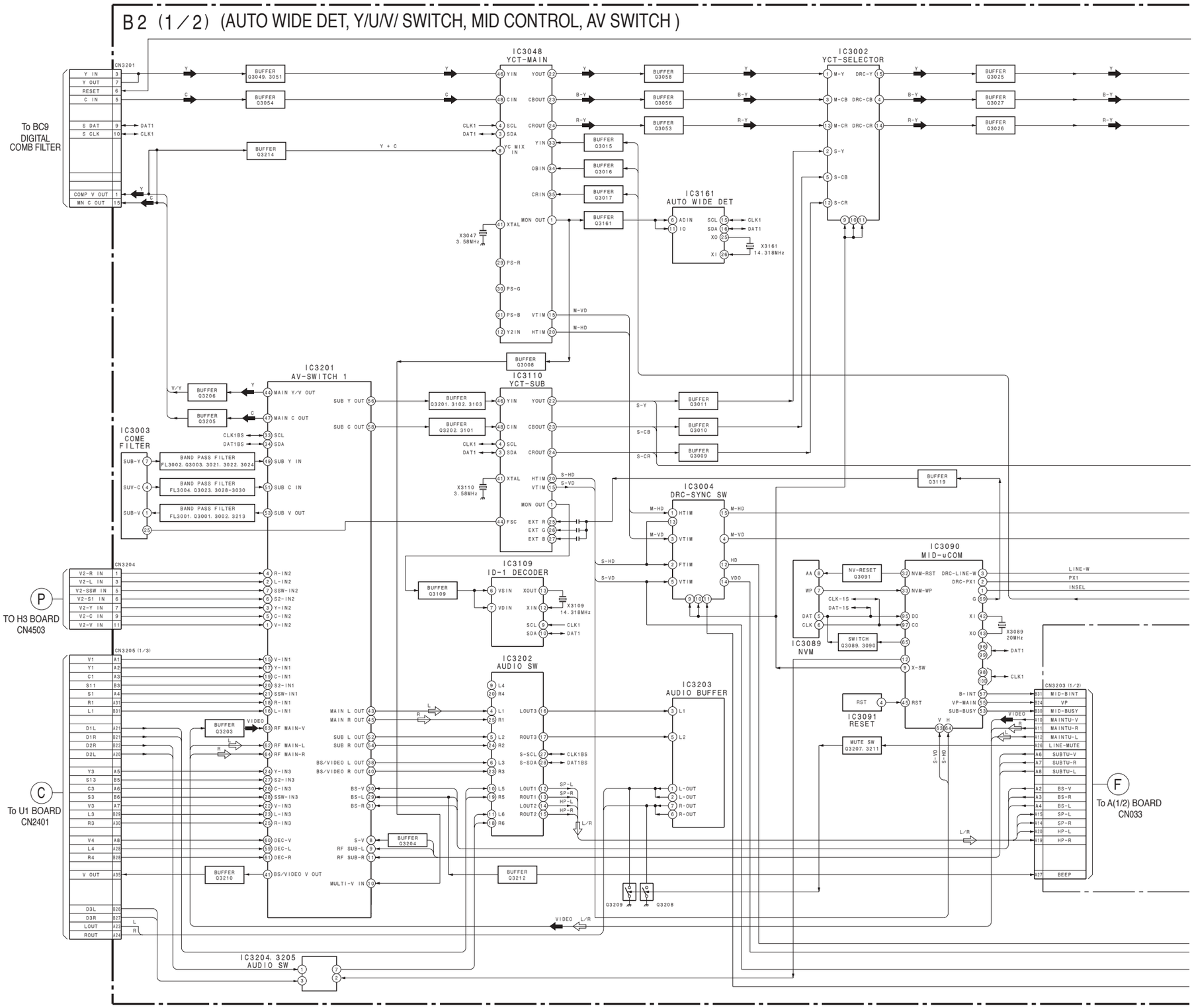
BLOCK DIAGRAM (2)



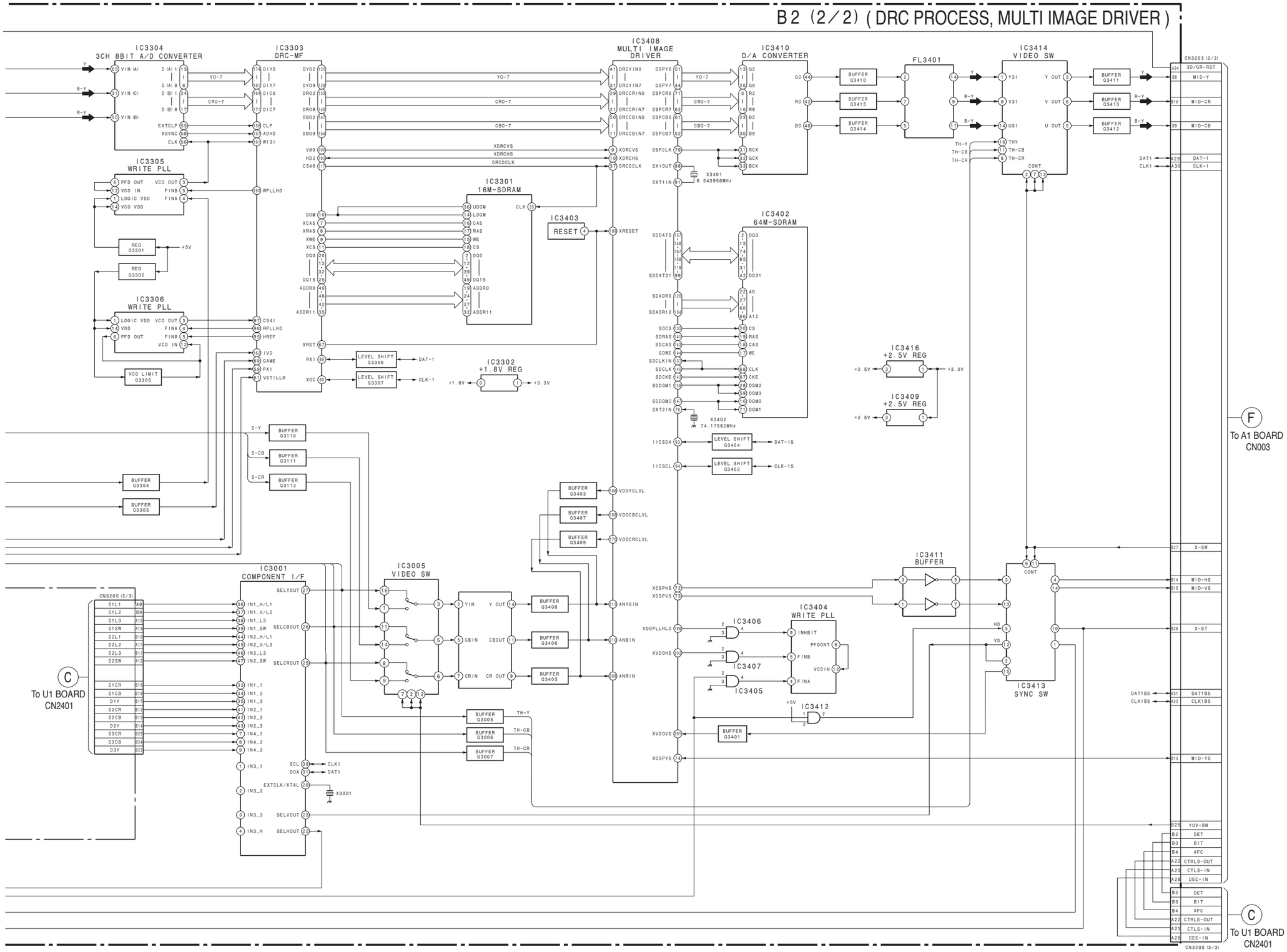
BLOCK DIAGRAM (3)



BLOCK DIAGRAM (4)

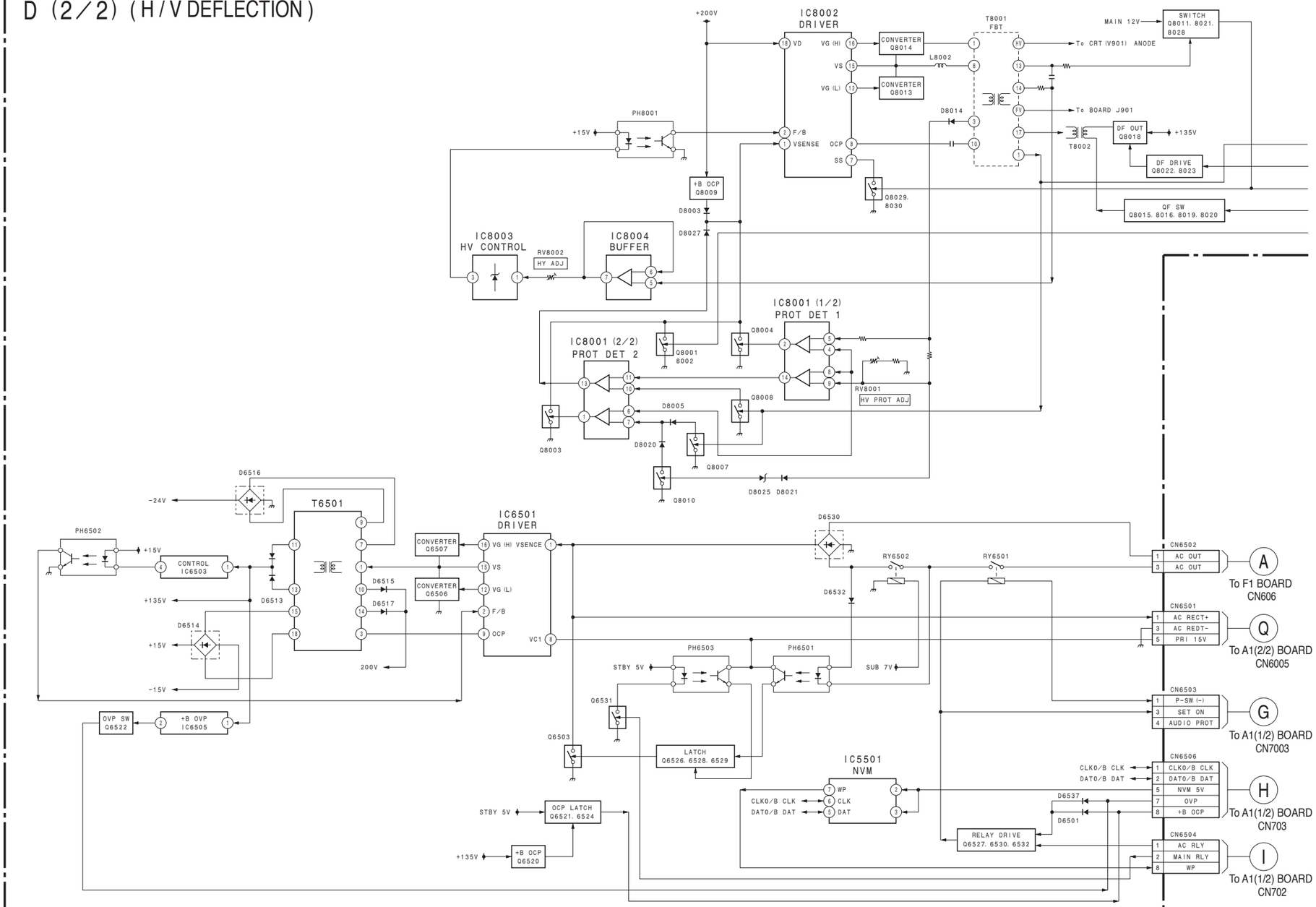


BLOCK DIAGRAM (5)

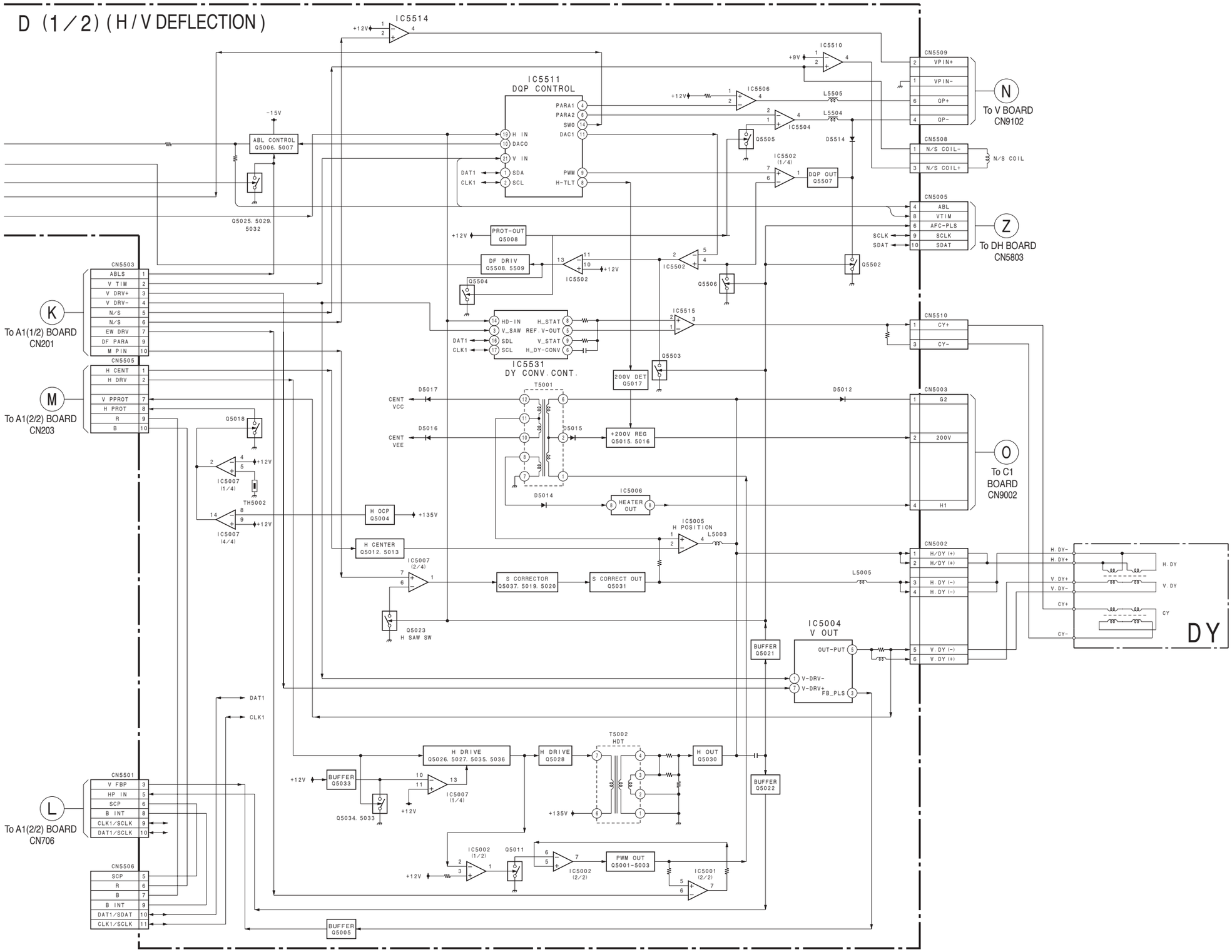


BLOCK DIAGRAM (6)

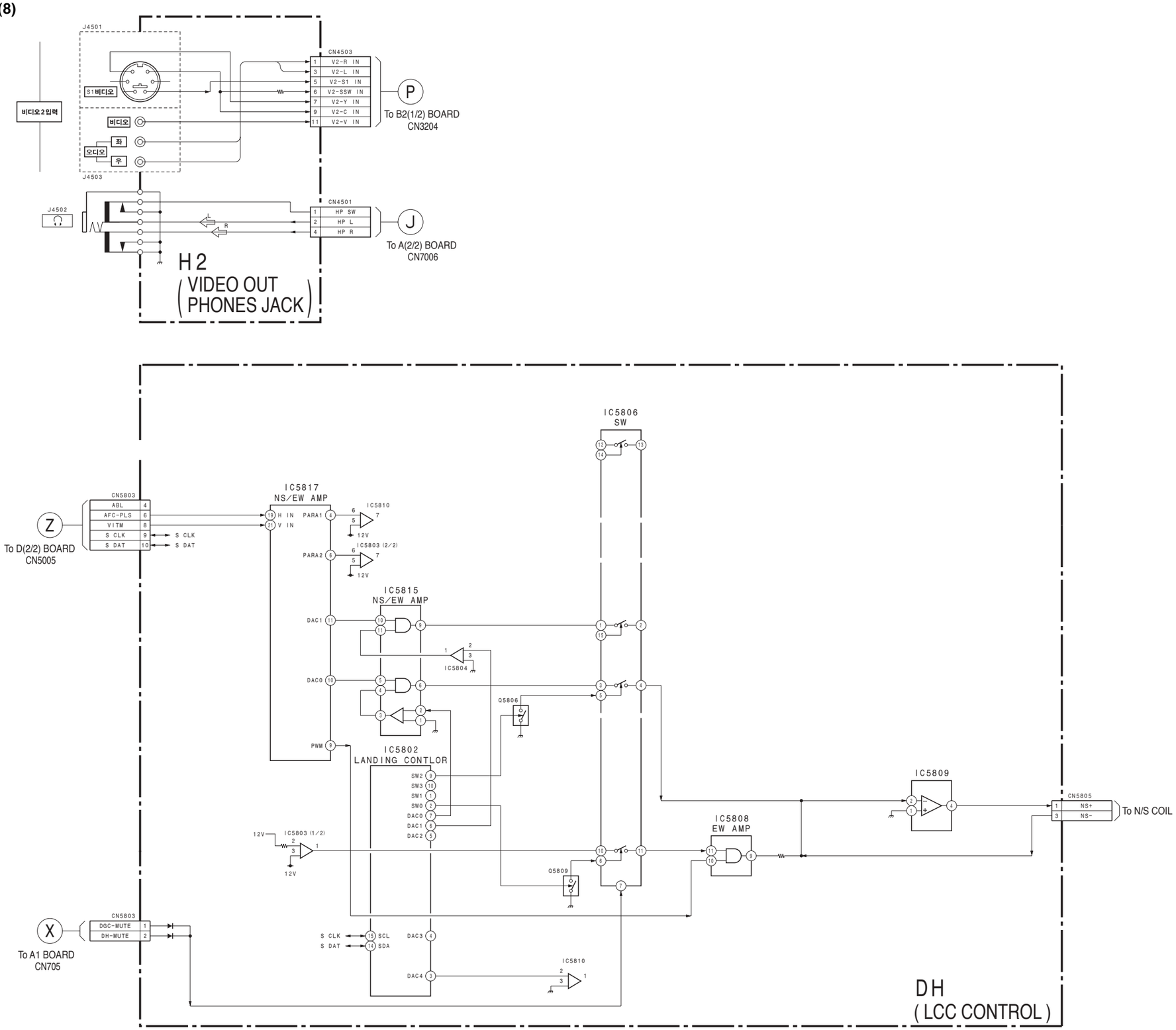
D (2/2) (H/V DEFLECTION)



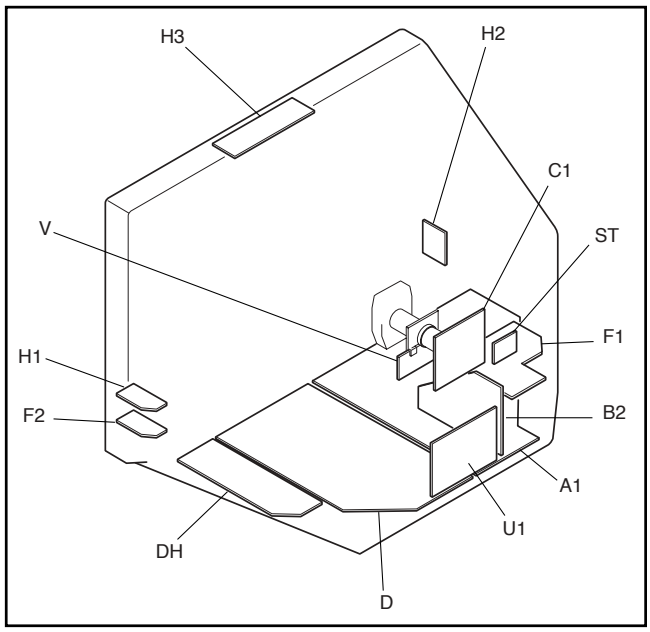
BLOCK DIAGRAM (7)



BLOCK DIAGRAM (8)



6-2. CIRCUIT BOARDS LOCATION



Note: The symbol display is on the component slde.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

The symbol indicate fast operating fuse. Replace only with fuse of same rating as maked.

6-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

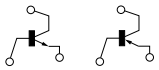
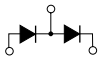
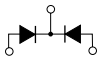
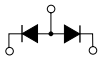
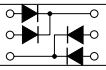
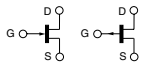
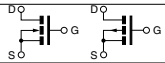
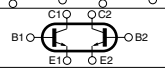
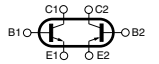
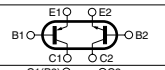
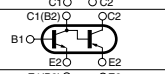
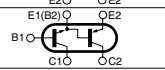
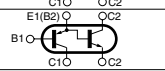
- Capacitors without voltage indication are all 50V.
- All resistors are in ohms.
  kΩ=1000Ω, MΩ=1000kΩ
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

  Pitch : 5mm
  Rating electrical power : 1/4 W
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.
- The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⋈ and repeat the adjustment until the specified value is achieved.
  (Refer to RV8001, 8002, adjustment on Page 70.)
- Readings are taken with a NTSC color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
  ∗ : Measurement impossibillity.
- Circled numbers are waveform references.
- : B+ bus.
- : B– bus.
- : signal path.(RF)

Reference information

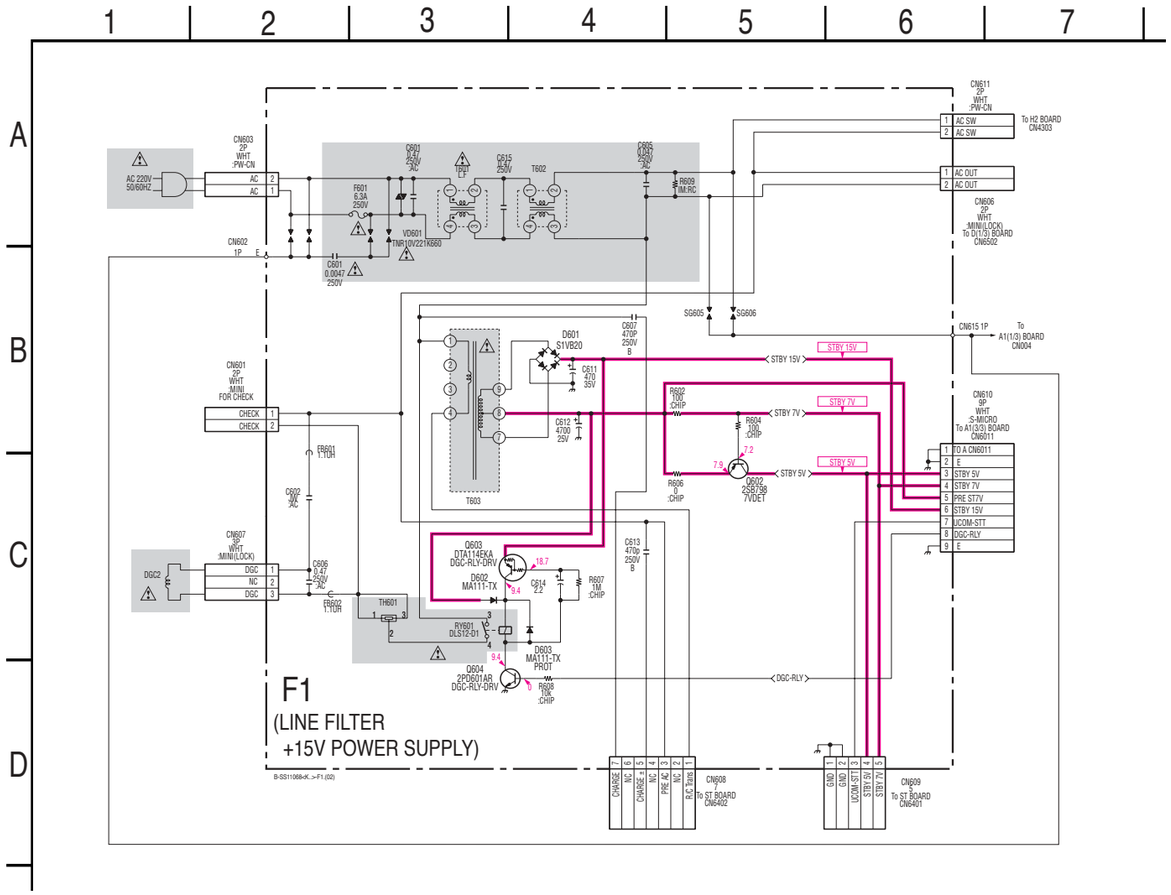
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

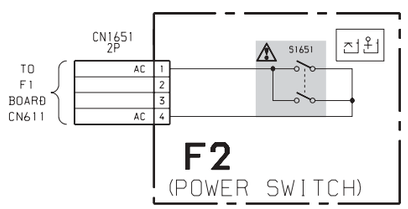
Terminal name of semiconductors in silk screen printed circuit (＊)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector Base Emitter	
②	Transistor		Collector Base Emitter	
③	Diode		Cathode Anode	
④	Diode		Cathode Anode (NC)	
⑤	Diode		Cathode Anode (NC)	
⑥	Diode		Common Anode Cathode	
⑦	Diode		Common Anode Cathode	
⑧	Diode		Common Anode Anode	
⑨	Diode		Common Anode Anode	
⑩	Diode		Common Cathode Cathode	
⑪	Diode		Common Cathode Cathode	
⑫	Diode		Anode Cathode Anode Anode Cathode Anode	
⑬	Transistor (FET)		Drain Source Gate	
⑭	Transistor (FET)		Drain Source Gate	
⑮	Transistor (FET)		□ Source □ Drain □ Gate	
⑯	Transistor		□ Emitter □ Collector □ Base	
⑰	Transistor		C2 B1 E1 E2 B2 C1	
⑱	Transistor		C1 B2 E2 E1 B1 C2	
⑲	Transistor		C1 B2 E2 E1 B1 C2	
⑳	Transistor		C1 B2 E2 E1 B1 C2	
㉑	Transistor		E2 B1 E1 C2 C1(B2)	
㉒	Transistor		(B2) B1 E1 E2 C1 C2	
㉓	Transistor		(B2) E2 E1 B1 C2 C1	
–	Discrete semiconductot			

(Chip semiconductors that are not actually used are included.)

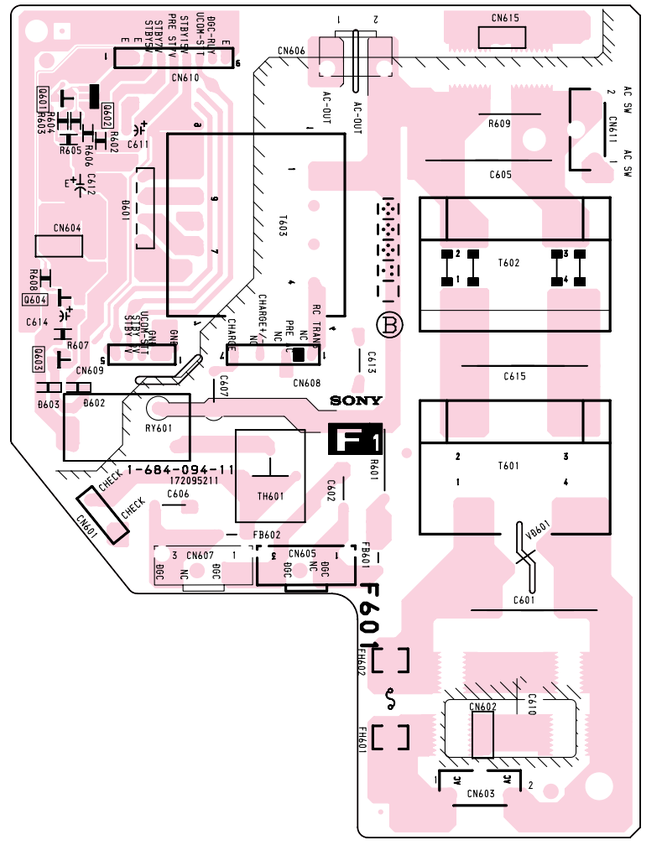
Ver.1.5



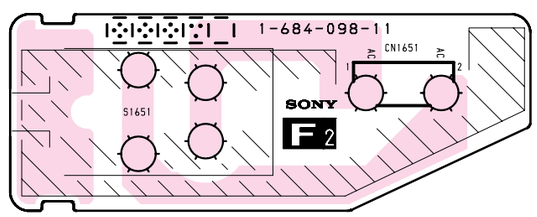


F1 [LINE FILTER, +15V POWER SUPPLY]

< Conductor side >

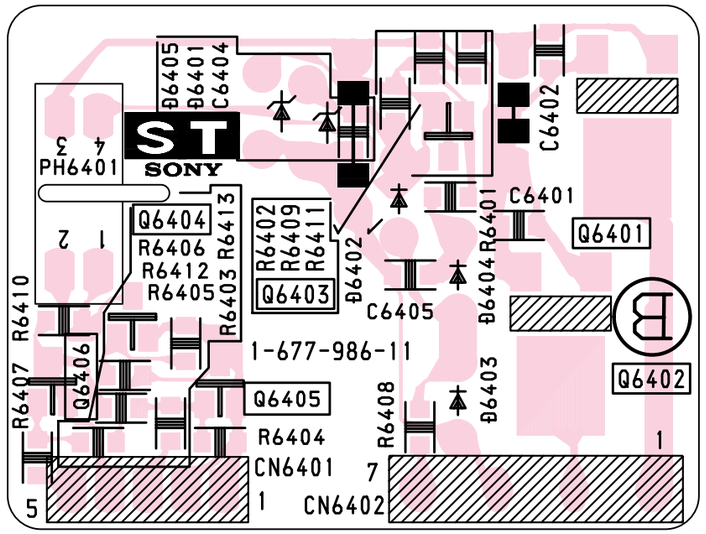


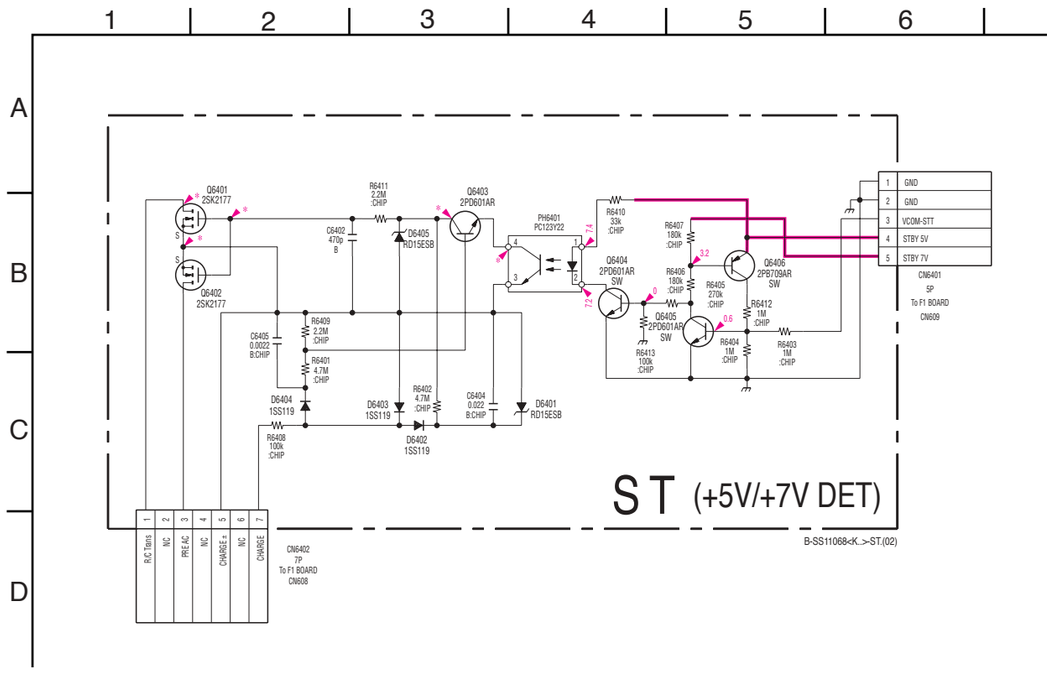
F2 [POWER SWITCH]



ST [+5V/+7V DET]

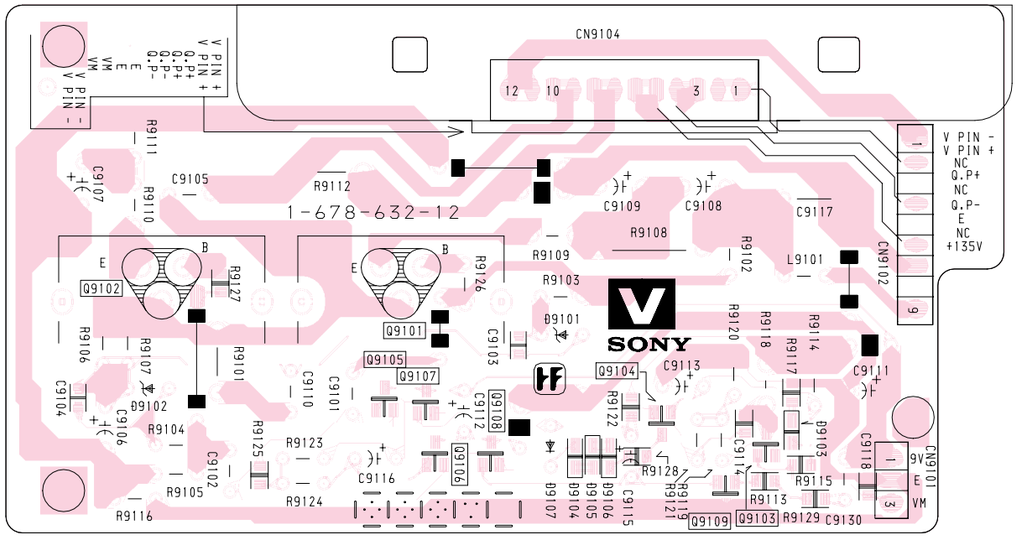
< Conductor side >

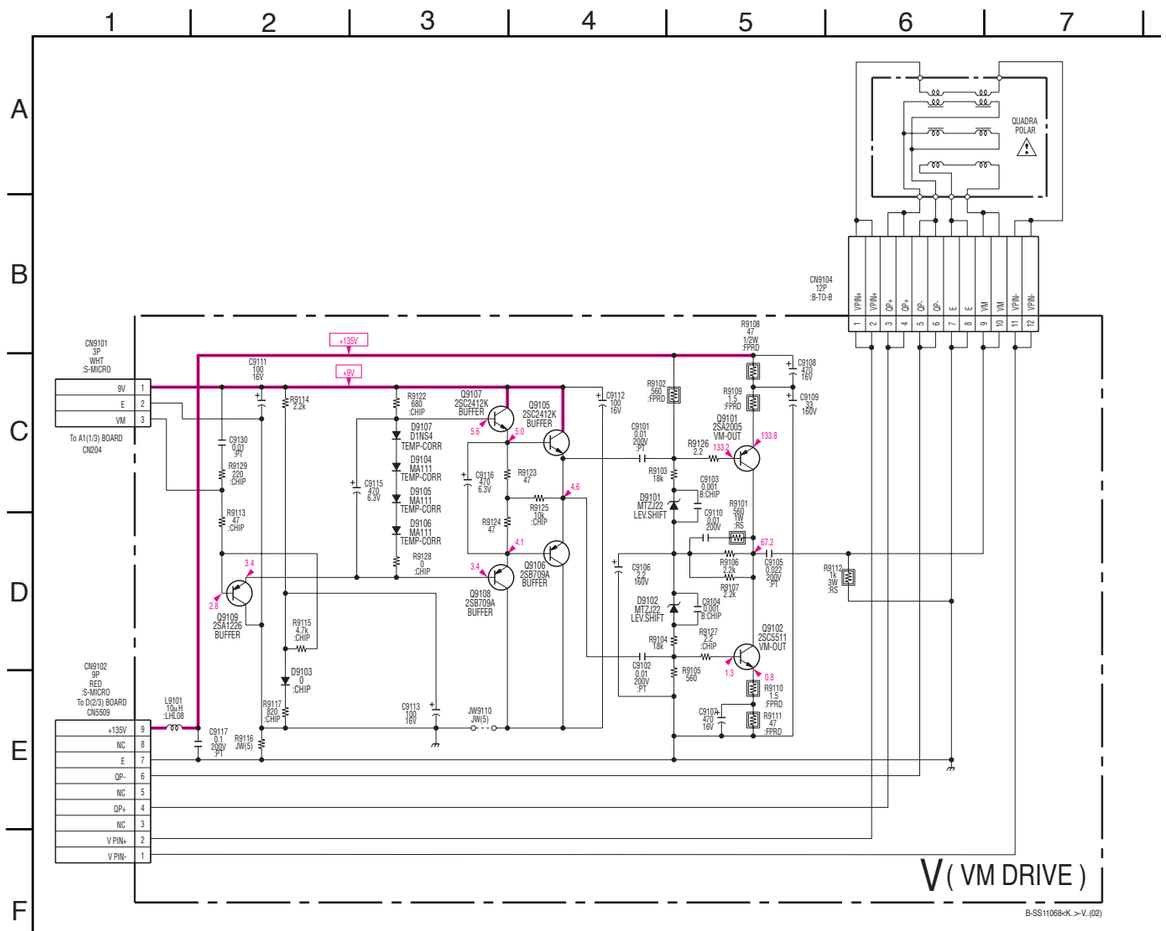




V [VM OUT]

< Conductor side >

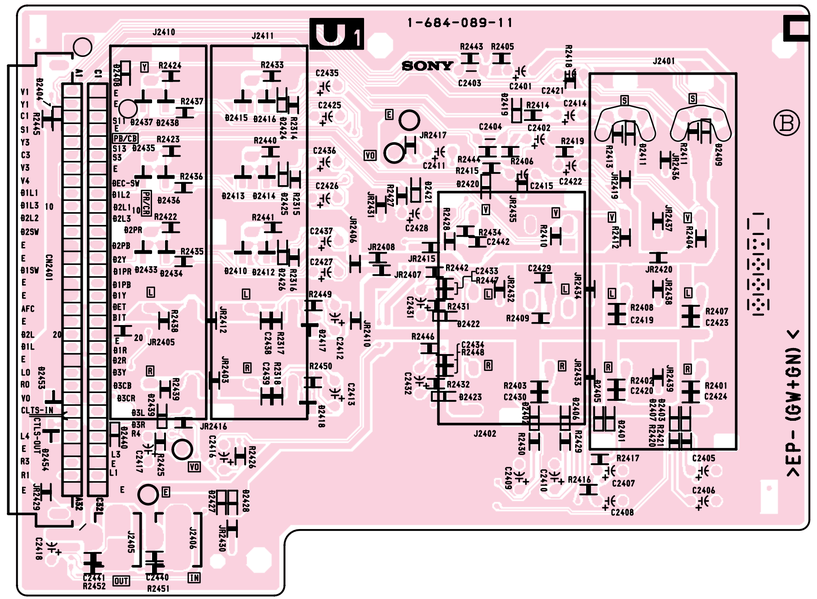


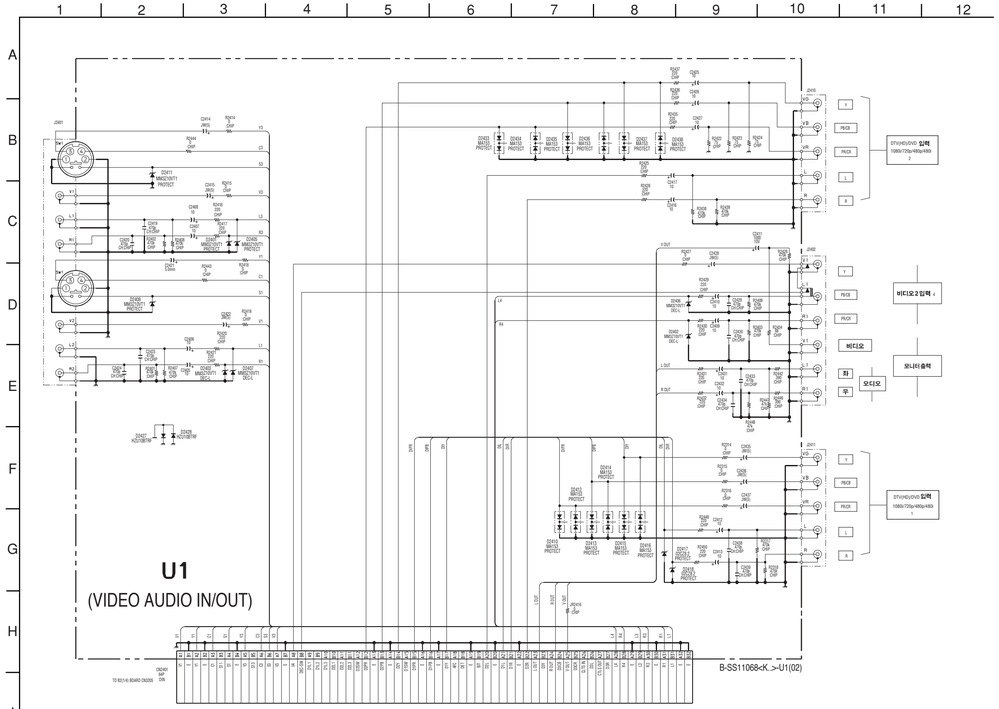


Schematic diagram
← F1 board

U1 [VIDEO, AND IN/OUT]

< Conductor side >





B2 BOARD

IC			
	L	R	✳
IC3001	D-6		
IC3002		C-3	
IC3003	D-5		
IC3004		A-3	
IC3005	D-6		
IC3006		A-3	
IC3007		C-2	
IC3048	C-5		
IC3089		A-4	
IC3090	A-4		
IC3091		A-4	
IC3109	E-4		
IC3110	D-4		
IC3161		B-3	
IC3201	E-5		
IC3202	E-5		
IC3203	E-6		
IC3204	E-6		
IC3205	D-6		
IC3301		B-3	
IC3302	B-3		
IC3303	B-4		
IC3304	C-3		
IC3305		C-5	
IC3306		B-4	
IC3402	E-2		
IC3403		C-5	
IC3404	D-3		
IC3405	E-3		
IC3406	D-4		
IC3407	D-4		
IC3408	C-2		
IC3409	E-3		
IC3410	B-3		
IC3411	C-2		
IC3412		D-6	
IC3413		D-6	
IC3414	E-1		
IC3416	F-2		

TRANSISTOR			
	L	R	✳
Q3001		D-3	②
Q3002		D-3	②
Q3003	E-5		②
Q3005		D-4	②
Q3006		D-4	②
Q3007	D-4		②
Q3008		C-2	②
Q3009	D-5		②
Q3010	C-5		②
Q3011	C-5	2	
Q3014	D-6		②
Q3015	D-5		②
Q3016	D-5		②
Q3017	D-5		②
Q3021		D-3	②
Q3022		E-3	②
Q3023		D-3	②
Q3024		E-3	②
Q3025		C-3	②
Q3026		C-3	②
Q3027		D-3	②
Q3028		D-3	②
Q3029		E-3	②
Q3030		D-3	②
Q3049	C-5		②
Q3051	C-5		②
Q3053		C-3	②
Q3054	C-5		②
Q3056		C-3	②
Q3058		C-3	②
Q3089	A-4		②
Q3090		A-4	②
Q3091		A-4	②
Q3101	E-4		②
Q3102		E-4	②
Q3103		E-4	②
Q3109		E-4	②
Q3110		D-3	②
Q3111		D-3	②
Q3112		D-3	②
Q3119		E-4	②
Q3161		B-3	②
Q3201		F-2	②
Q3202		F-2	②
Q3203	F-6		②
Q3204		E-2	②
Q3205		E-2	②
Q3206		E-2	②
Q3207		E-3	②
Q3208		E-3	②
Q3209		E-3	②
Q3210		E-3	②
Q3211		E-3	②
Q3212		E-2	②
Q3213		E-2	②
Q3214	E-5		②
Q3301		C-5	②
Q3302		B-4	②
Q3303		C-4	②
Q3304		C-4	②
Q3305		B-5	②
Q3306		A-3	②
Q3307		A-3	②
Q3401		D-4	②
Q3402	D-1		②
Q3403		D-5	②
Q3404	D-1		②
Q3405		D-5	②
Q3406		D-5	②
Q3407		D-5	②
Q3408		C-5	②
Q3409		D-5	②
Q3410		B-5	②
Q3411		F-7	②
Q3412		F-7	②
Q3413		F-7	②
Q3414		B-5	②
Q3415		B-5	②

DIODE			
	L	R	✳
D3089		A-4	⑦
D3090		A-4	⑦
D3094		A-4	④
D3155	B-6		③
D3156	C-6		①
D3201	E-6		①
D3202		E-2	③
D3204	E-6		③
D3205	E-6		③
D3206	E-6		③
D3207		E-3	③
D3208		E-3	③
D3209		E-3	⑮
D3210		E-3	③
D3211		E-3	③
D3212		E-2	③
D3213	E-6		③
D3214		E-2	③
D3215		E-2	③
D3301		C-5	③
D3309	A-4		⑥
D3310	A-4		⑮
D3401		D-6	⑨
D3402		D-6	⑮

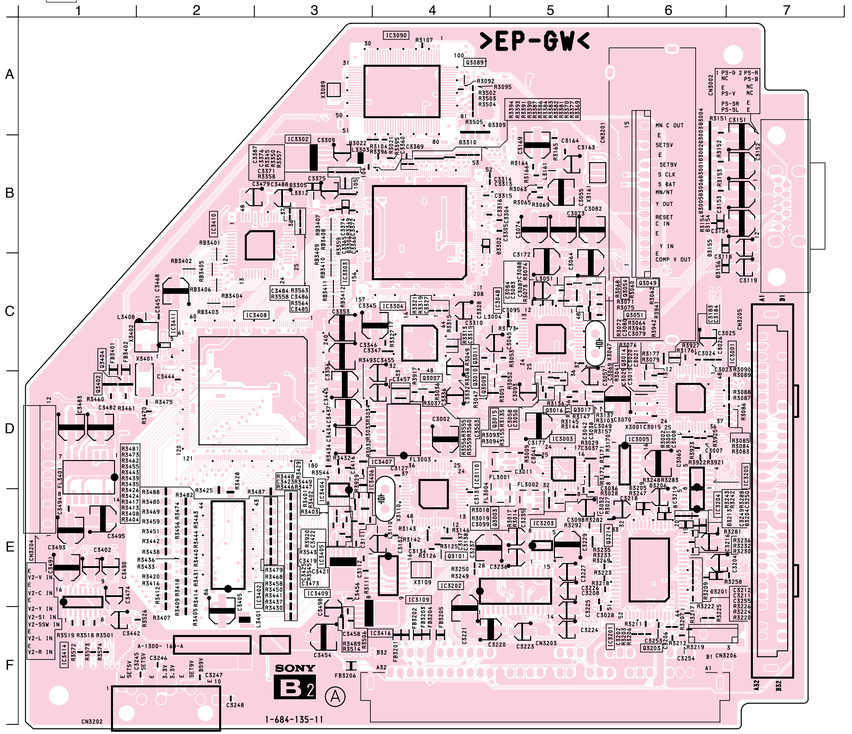
L ; component side
R ; conductor side

KV-ES34K9H/ES38K9H
RM-970 **RM-970**

Schematic diagram
← U1 board B2-2

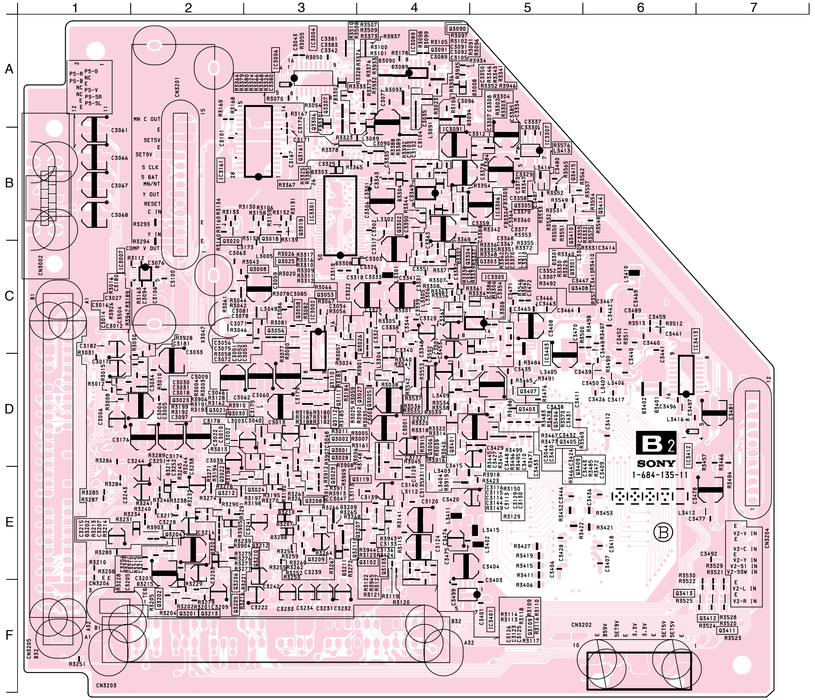
B2 [AV SW, DRC, MID]

< Component side >

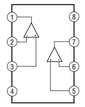


B2-1

< Conductor side >

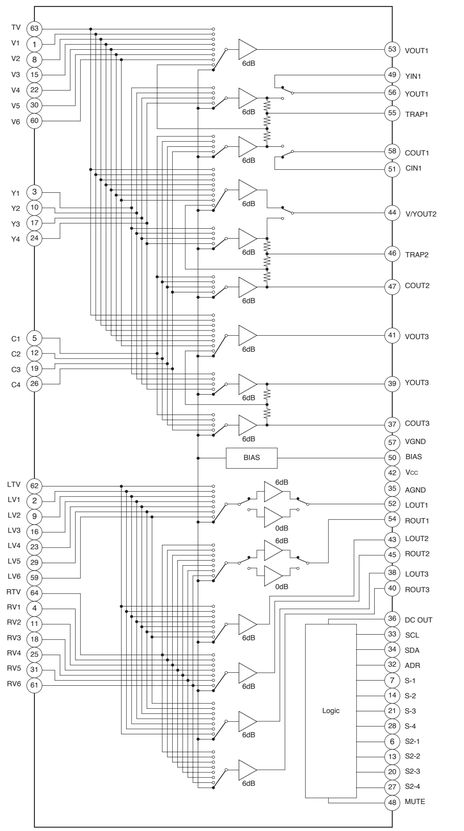


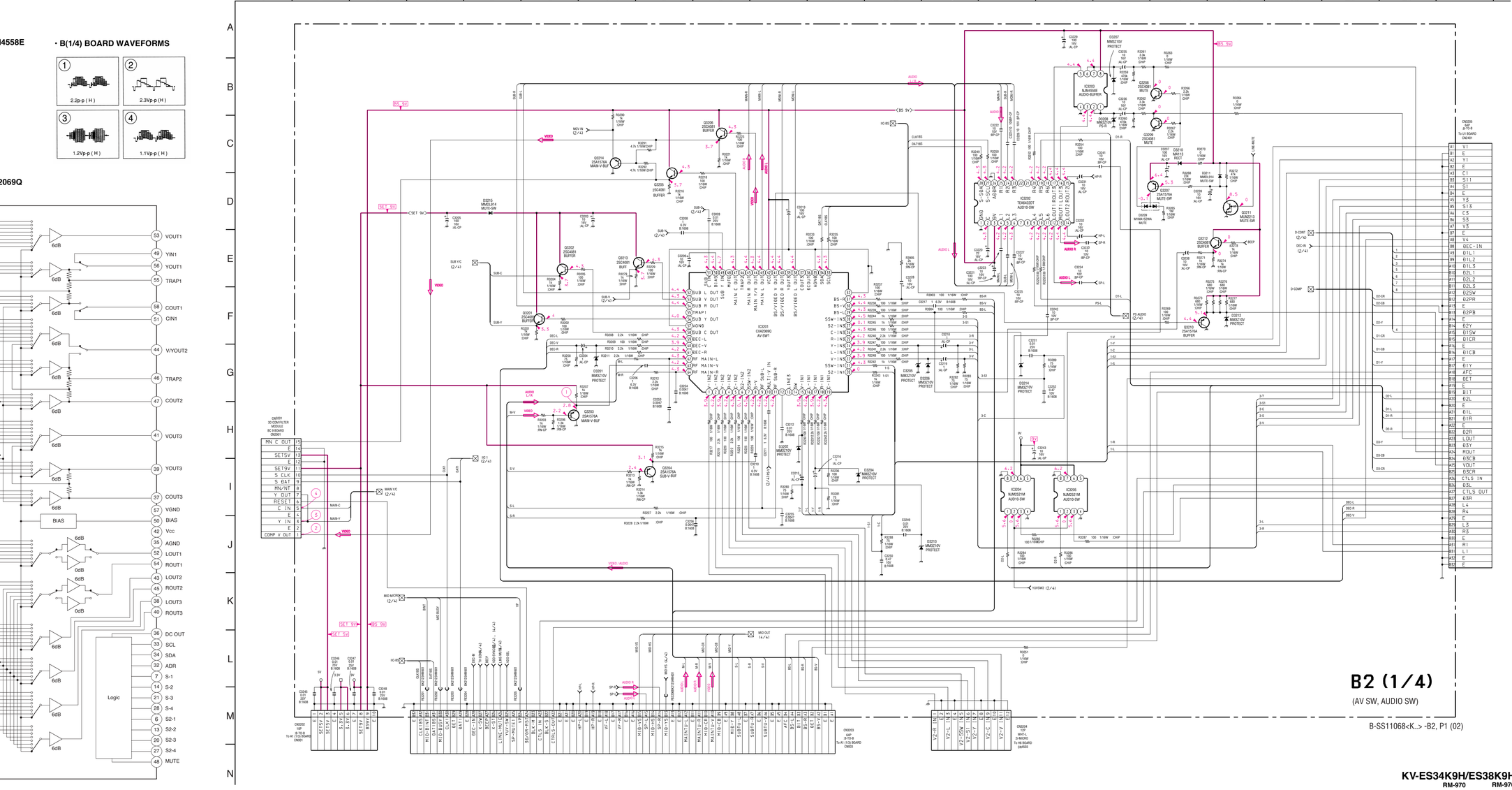
B2 (1/4) BOARD : IC3203 NJM4558E



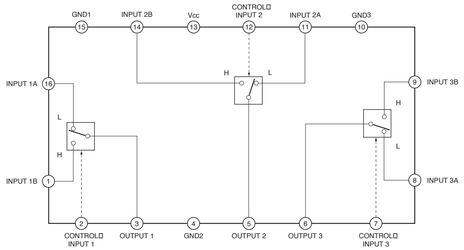
· B(1/4) BOARD WAVEFORMS

B2 (1/4) BOARD : IC3201 CXA2069Q

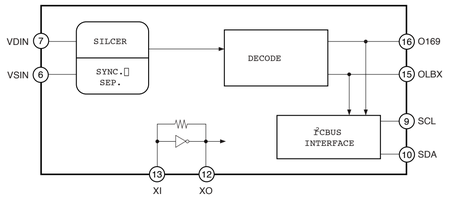




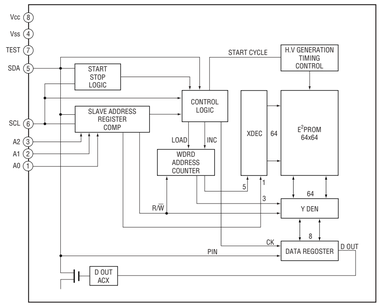
B2 (2/4) BOARD : IC3005 M52055FP



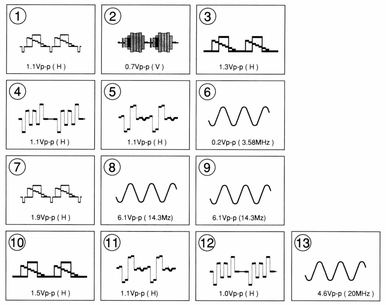
B2 (2/4) BOARD : IC3109 CXD2085M



B2 (2/4) BOARD : IC3089 M24C04F-MN6T



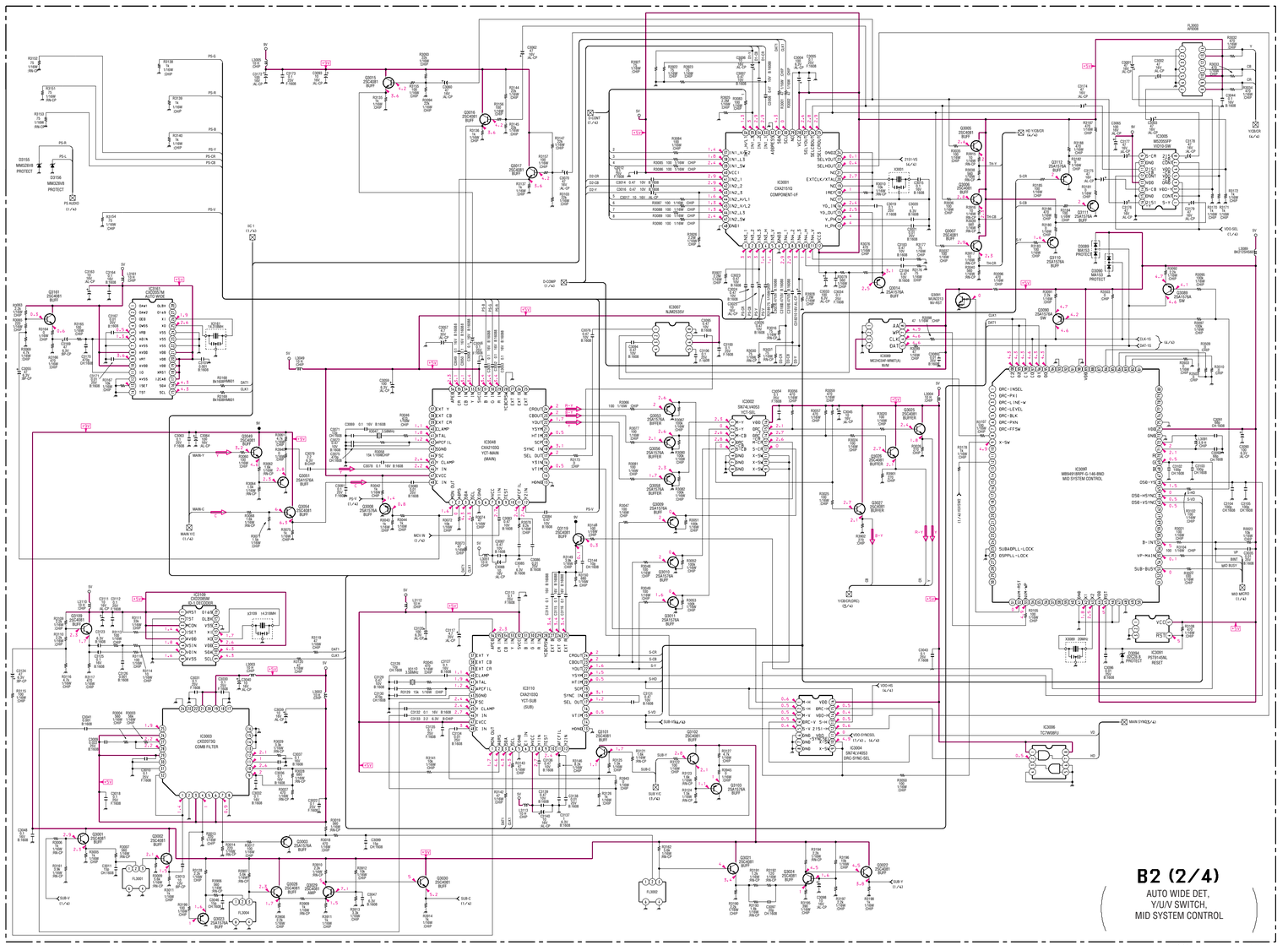
• B(1/4) BOARD WAVEFORMS

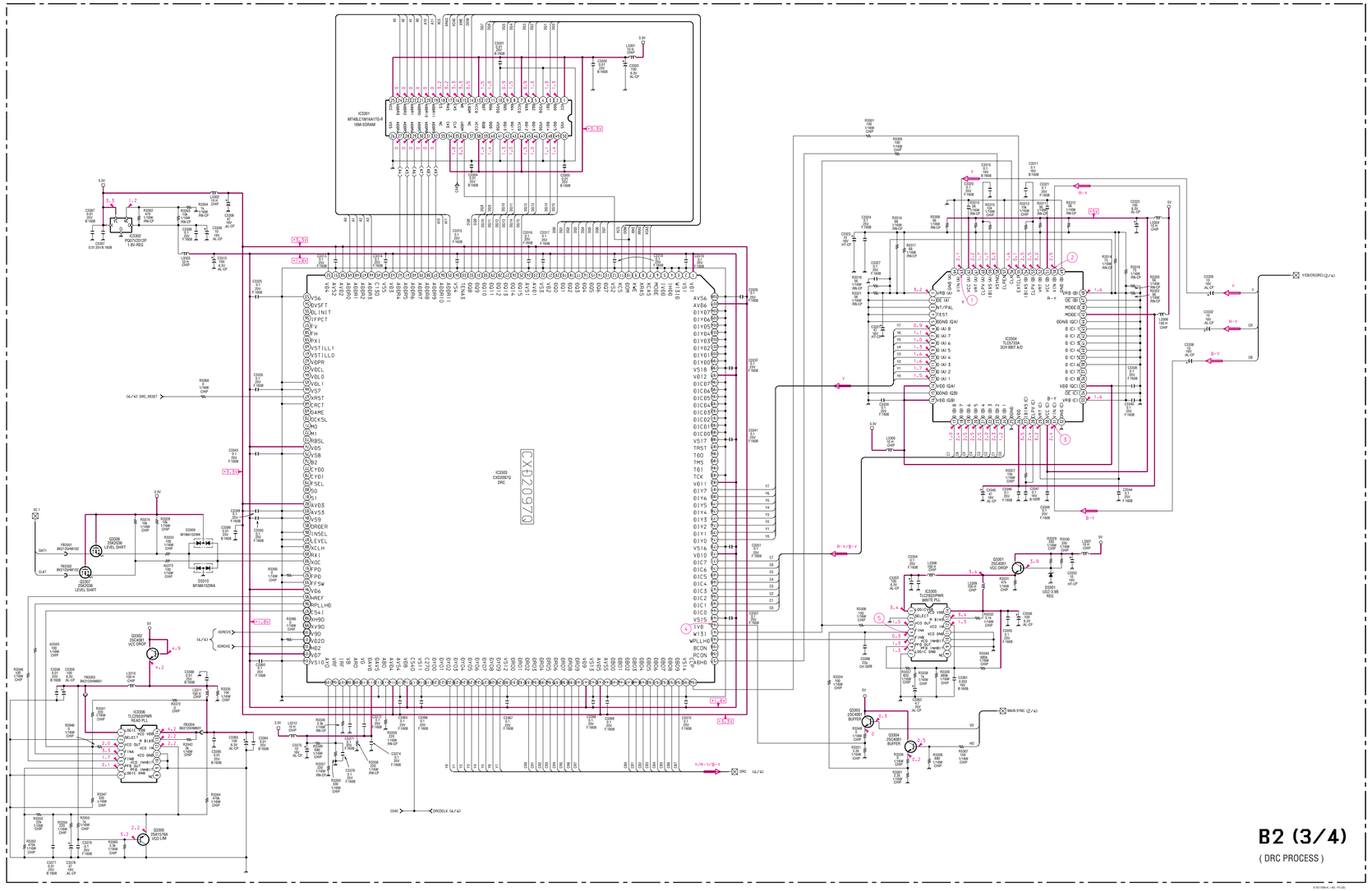


KV-ES34K9H/ES38K9H
RM-970 RM-970

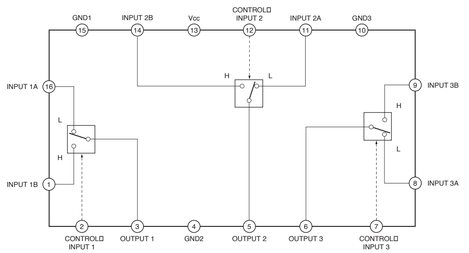
Schematic diagram
← B2(1/4) board
B2(2/4)-3 – 105 –

Schematic diagram
B2 (2/4) board →
B2(2/4)-2 – 106 –

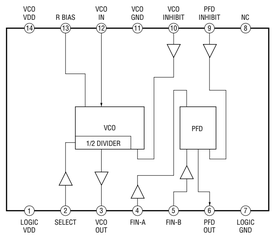

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
A B C D E F G H I J K L M N O
IC3001 CXA2151Q COMPONENT-I/F
IC3005 M52055FP VIDEO SW
IC3007 NJM2035V
IC3008 CXA1870AS
IC3009 CXA1870AS
IC3010 CXA1870AS
IC3011 CXA1870AS
IC3012 CXA1870AS
IC3013 CXA1870AS
IC3014 CXA1870AS
IC3015 CXA1870AS
IC3016 CXA1870AS
IC3017 CXA1870AS
IC3018 CXA1870AS
IC3019 CXA1870AS
IC3020 CXA1870AS
IC3021 CXA1870AS
IC3022 CXA1870AS
IC3023 CXA1870AS
IC3024 CXA1870AS
IC3025 CXA1870AS
IC3026 CXA1870AS
IC3027 CXA1870AS
IC3028 CXA1870AS
IC3029 CXA1870AS
IC3030 CXA1870AS
IC3031 CXA1870AS
IC3032 CXA1870AS
IC3033 CXA1870AS
IC3034 CXA1870AS
IC3035 CXA1870AS
IC3036 CXA1870AS
IC3037 CXA1870AS
IC3038 CXA1870AS
IC3039 CXA1870AS
IC3040 CXA1870AS
IC3041 CXA1870AS
IC3042 CXA1870AS
IC3043 CXA1870AS
IC3044 CXA1870AS
IC3045 CXA1870AS
IC3046 CXA1870AS
IC3047 CXA1870AS
IC3048 CXA2102Q YC/I MAIN (MAIN)
IC3090 MB89189PF-G-146-BND MID SYSTEM CONTROL
IC3091 PST1458L RESET
IC3093 CXA1870AS
IC3094 CXA1870AS
IC3095 CXA1870AS
IC3096 CXA1870AS
IC3097 CXA1870AS
IC3098 CXA1870AS
IC3099 CXA1870AS
IC3100 CXA1870AS
IC3101 CXA1870AS
IC3102 CXA1870AS
IC3103 CXA1870AS
IC3104 CXA1870AS
IC3105 CXA1870AS
IC3106 CXA1870AS
IC3107 CXA1870AS
IC3108 CXA1870AS
IC3109 CXD2085M
IC3110 CXA2102Q YC/I SUB (SUB)
IC3003 CXD2072Q COMB FILTER
IC3004 CXA1145Q DRC-SYSC-SEL
IC3006 TC7W58FU
IC3090 MB89189PF-G-146-BND MID SYSTEM CONTROL
IC3091 PST1458L RESET
IC3089 M24C04F-MN6T
IC3007 NJM2035V
IC3098 CXD2085M
IC3109 CXD2085M
D3155 MMBZ5V6 PROTECT
D3156 MMBZ5V6 PROTECT
D3157 MMBZ5V6 PROTECT
D3158 MMBZ5V6 PROTECT
D3159 MMBZ5V6 PROTECT
D3160 MMBZ5V6 PROTECT
D3161 MMBZ5V6 PROTECT
D3162 MMBZ5V6 PROTECT
D3163 MMBZ5V6 PROTECT
D3164 MMBZ5V6 PROTECT
D3165 MMBZ5V6 PROTECT
D3166 MMBZ5V6 PROTECT
D3167 MMBZ5V6 PROTECT


IC3301
MT48LC16M16A2TG-6
16M-SDRAM
IC3303
CXD3597Q
DRC
CX72670
IC3304
TLC5733A
3CH 8BIT A/D
IC3305
TLC2932IPWR
WIDTH ADJ
IC3306
TLC2933IPWR
RESET PULSE
IC2301
PQ3TV2201ZP
1.8V REG
IC2302
PQ3TV2201ZP
1.8V REG
IC2306
TLC2933IPWR
RESET PULSE
Q3300
2SC4081
VCC DROP
Q3301
2SC4081
VCC DROP
Q3302
2SC4081
VCC DROP
Q3303
2SC4081
BUFFER
Q3304
2SC4081
BUFFER
Q3305
DTA115TKA
VCC LIM
Q3306
2SA2036
LEVEL SHIFT
Q3307
2SA2036
LEVEL SHIFT
D3301
MA8051WA
D3302
MA8051WA
D3303
MA8051WA
D3310
MA8051WA
D3311
MA8051WA
D3312
MA8051WA
D3313
MA8051WA
D3314
MA8051WA
D3315
MA8051WA
D3316
MA8051WA
D3317
MA8051WA
D3318
MA8051WA
D3319
MA8051WA
D3320
MA8051WA
D3321
MA8051WA
D3322
MA8051WA
D3323
MA8051WA
D3324
MA8051WA
D3325
MA8051WA
D3326
MA8051WA
D3327
MA8051WA
D3328
MA8051WA
D3329
MA8051WA

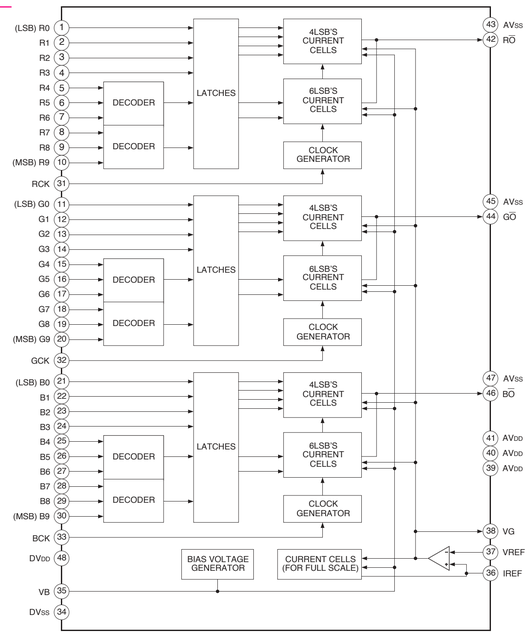
B2 (4/4) BOARD : IC3414 M52055FP



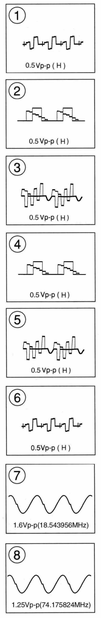
B2 (4/4) BOARD : IC3404 TLC2932IPWR

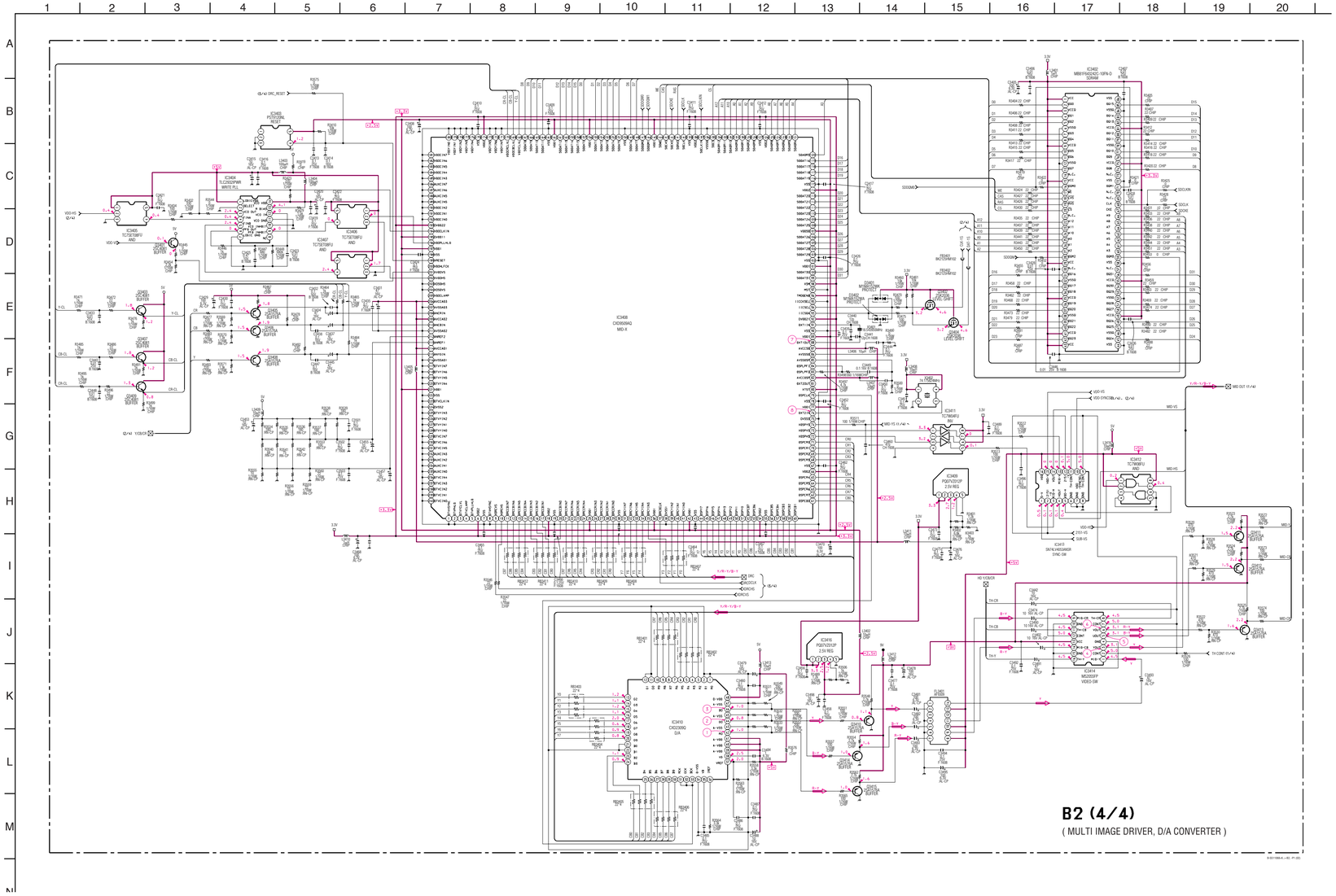


B2 (4/4) BOARD : IC3410 CX2309Q



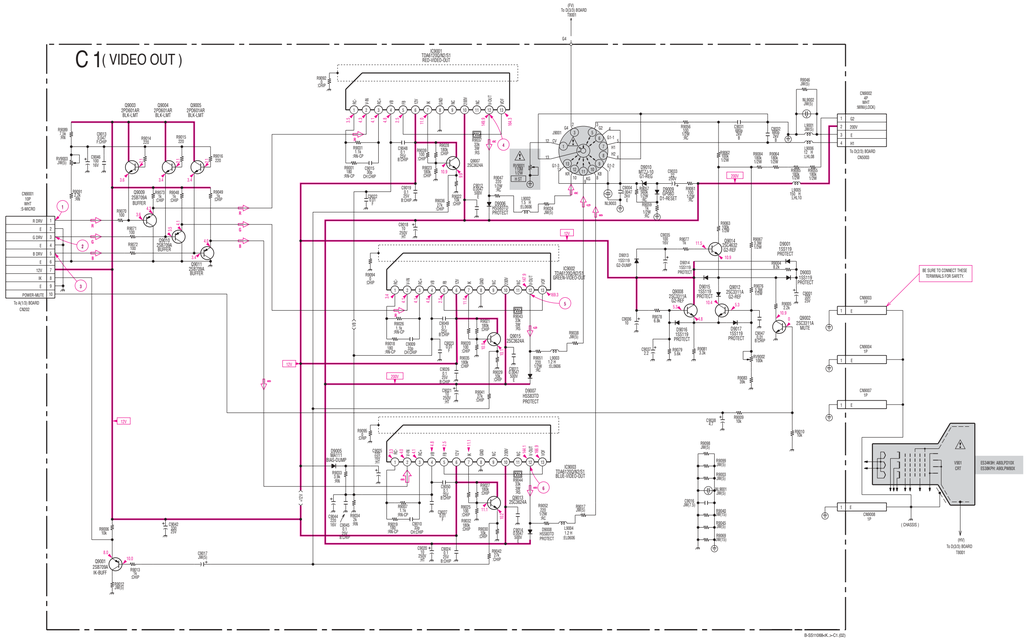
• B(4/4) BOARD WAVEFORMS





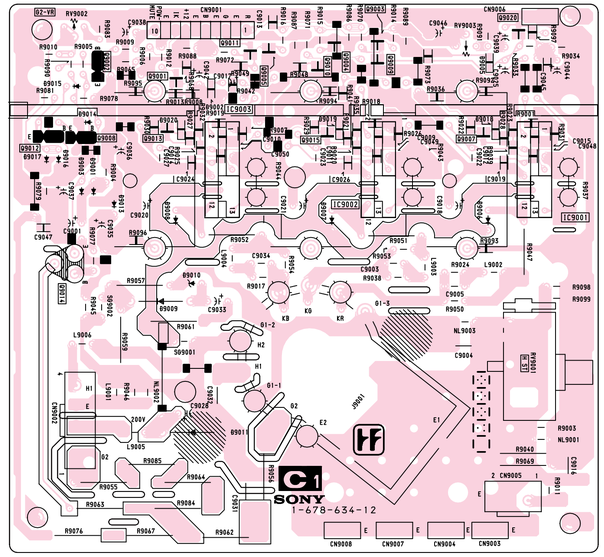
KV-ES34K9H/ES38K9H
RM-970 **RM-970**

C 1 (VIDEO OUT)



C1 [VIDEO OUT]

< Conductor side >



A1 BOARD

IC

	L	R	✳
IC201	H-10		
IC701	E-5		
IC702	D-6		
IC706	F-6		
IC707	E-4		
IC6001	G-1	G-11	
IC6002	H-3	H-9	
IC6003	H-5	H-7	
IC6004	D-4	D-8	
IC6005	H-8	H-4	
IC6006	H-7	H-5	
IC6007	G-5	G-7	
IC6008	H-7	H-5	
IC6009	H-6	H-6	
IC6010	H-5	H-7	
IC7001	C-5		
IC7002	B-3	B-9	
IC7003	D-2	D-10	
IC7004	D-1		
IC7005	D-3	D-9	
IC7006	D-5		

TRANSISTOR

	L	R	✳
Q005		C-6	①
Q012		E-3	①
Q015		E-2	①
Q203	H-11		②
Q204	H-11		②
Q207	H-11		②
Q208	G-11		②
Q209	G-10		②
Q210		H-1	①
Q211	G-9		②
Q212		G-3	①
Q215		H-1	①
Q216		H-2	①
Q217		H-2	①
Q701	F-2		②
Q702	F-2		②
Q703	F-7		②
Q704	F-7		②
Q705	F-7		②
Q706	F-7		②
Q707	F-7		②
Q708	F-6		②
Q709	F-5		②
Q712	D-5		②
Q714	F-5		②
Q717		E-8	①
Q718	F-7		②
Q721	F-7		②
Q722		E-9	
Q723		E-5	①
Q724		E-6	①
Q725		F-7	①
Q726	G-5		②
Q727	G-5		②
Q728		G-7	①
Q729		G-7	①
Q6006	G-5		②
Q6007	F-2	F-10	
Q6008	F-1	F-11	
Q7001		D-6	①
Q7005		A-8	①
Q7007		D-10	①
Q7008		D-10	①
Q7010		C-9	①
Q7013		A-8	①
Q7014		B-8	①
Q7016		D-9	①
Q7017	D-2		②
Q7018	D-2		②

DIODE

	L	R	✳
D203	H-10		⑤
D211	H-8		
D212		H-2	③
D213		H-2	③
D214		G-2	③
D215		G-2	③
D701	F-7		⑤
D702		E-7	③
D703	F-6		④
D704	F-6		④
D705	F-5		④
D706	F-6		④
D707	F-6		④
D708	D-5		④
D709	F-5	F-7	
D710		F-6	④
D711		F-5	⑤
D715	E-4		④
D716	E-4		⑤
D717	E-5		④
D719	F-5		④
D720	G-6		④
D721		E-11	④
D723		F-7	④
D724	F-5		④
D725	F-6		④
D727		E-7	④
D6003	G-1	G-10	
D6005	H-2	H-10	
D6009	H-2	H-10	
D6011		F-9	
D6012	G-3	G-9	
D6013		H-9	
D6014	F-3	F-9	
D6017	F-3	F-9	
D6018	F-3	F-9	
D6019		G-6	④
D6025		G-11	④
D7002	D-5	D-7	
D7003		C-7	④
D7004		C-7	⑤
D7005		C-7	④
D7009		B-9	④
D7010		B-9	④
D7011		D-9	④
D7012		D-9	④
D7013	D-5		
D7014		E-11	④
D7021	D-4	D-8	

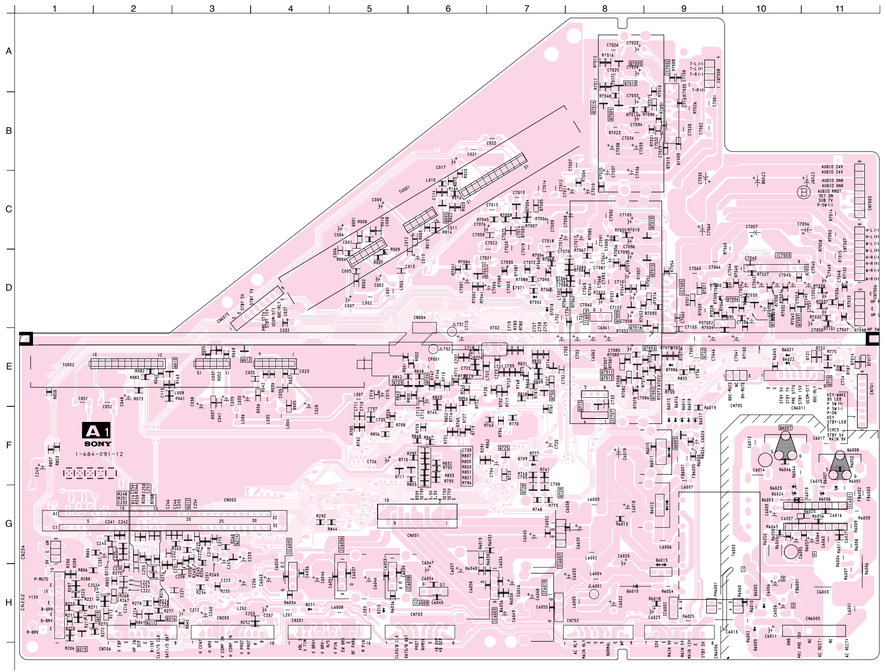
L : component side
R : conductor side

KV-ES34K9H/ES38K9H
RM-970 **RM-970**

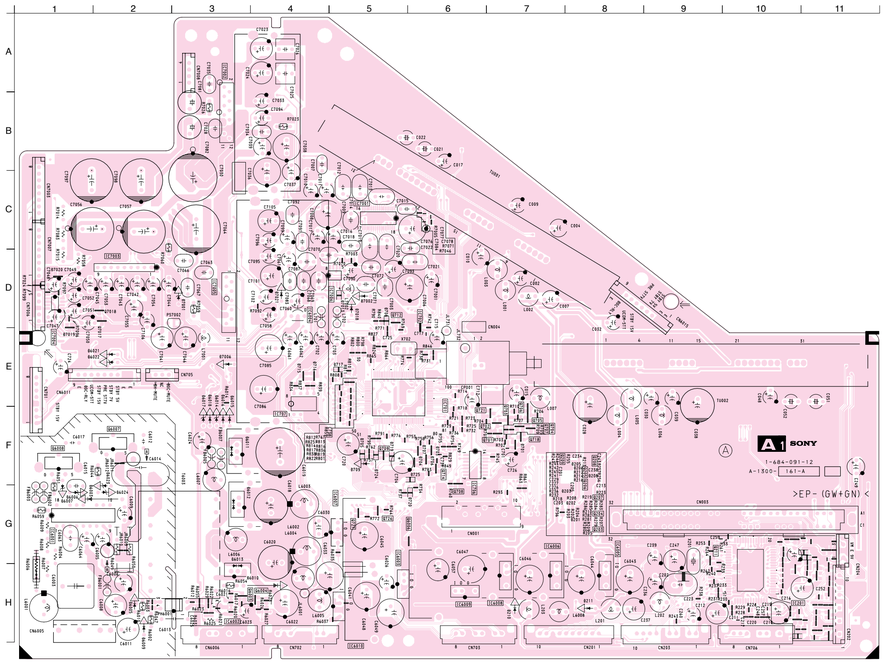
Schematic diagram
← C1 board

A1 [TUNER, Y/C JUNGLE, SYSTEM CONTROL, AUDIO OUT, POWER SUPPLY]

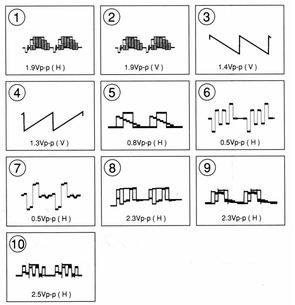
< Component side >



< Comporent side >



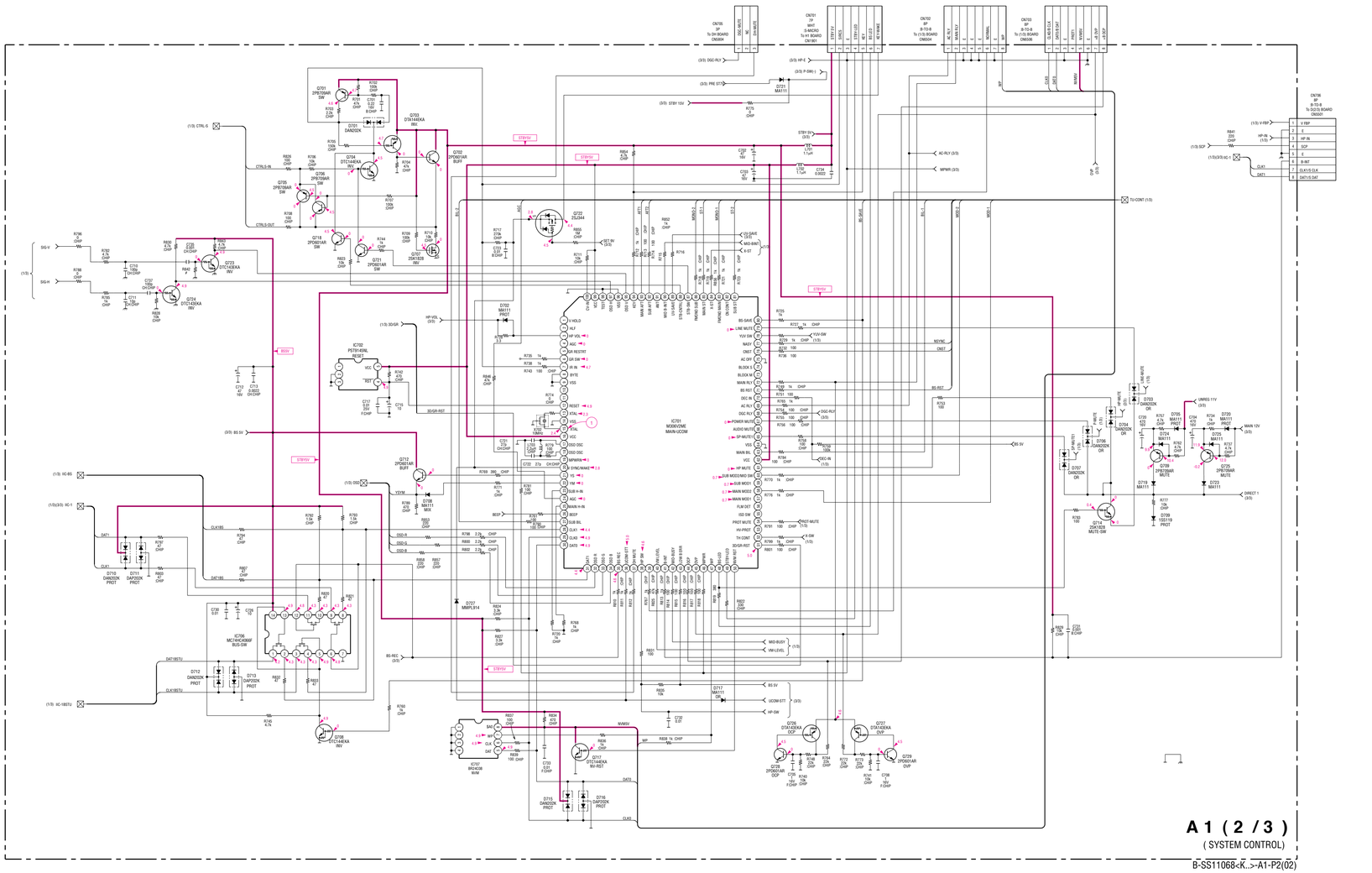
• **A(1/3) BOARD WAVEFORMS**



A1(1/3)

(TUNER, Y/C/ JUNGLE)

B-SS11068<K..>-A1-P1 (02)

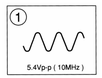


A1 (2 / 3)

(SYSTEM CONTROL)

B-SS11068<K..>-A1-P2(02)

• A(2/3) BOARD WAVEFORMS



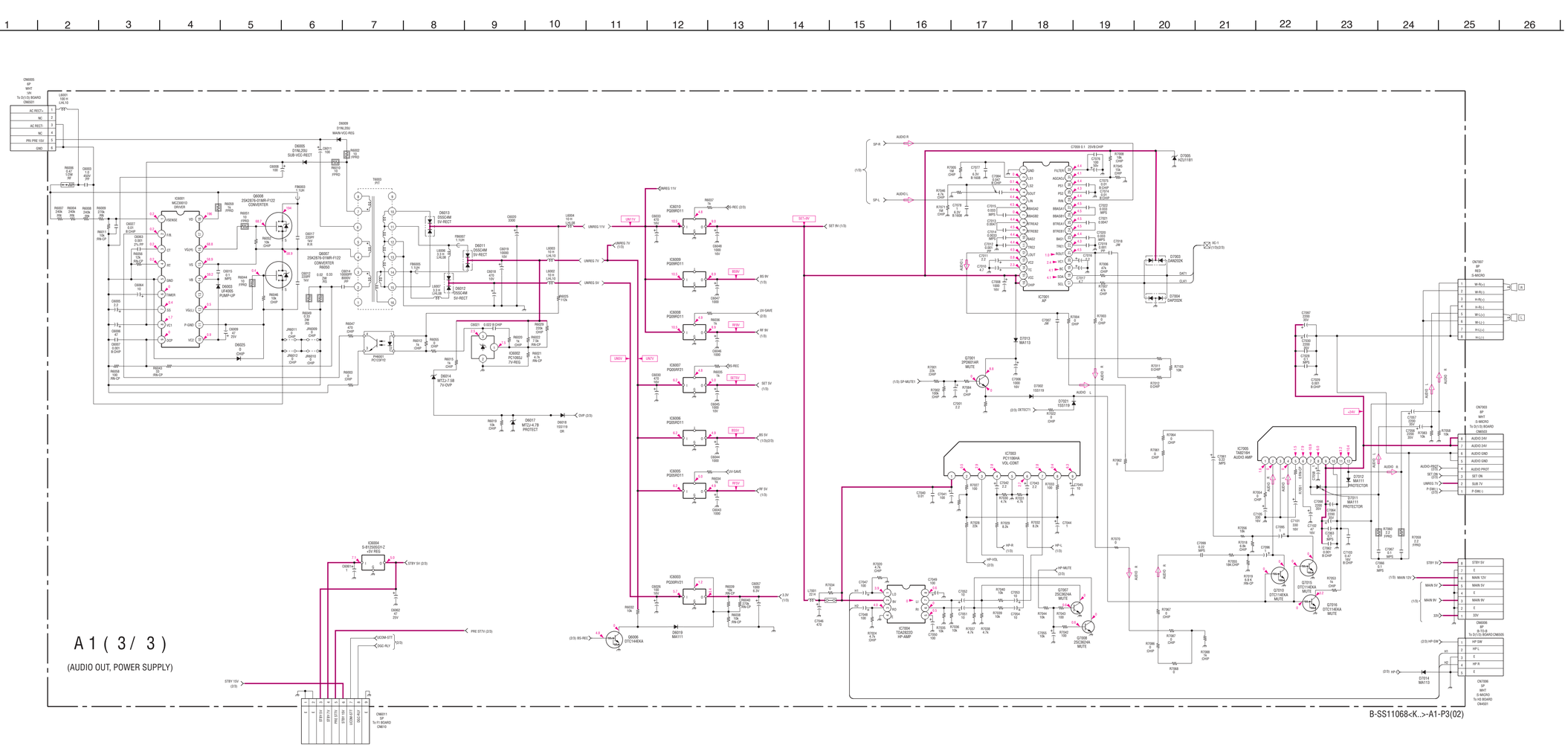
KV-ES34K9H/ES38K9H

RM-970 **RM-970**

Schematic diagram
← A (1/3) board
A1(2/3)-3 – 129 –

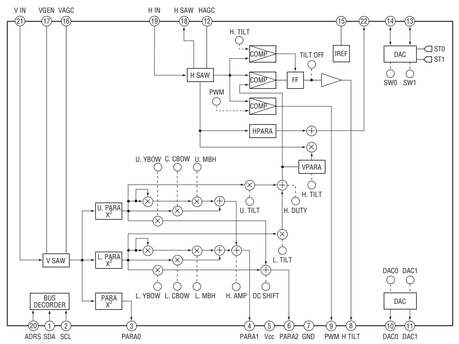
Schematic diagram
A (2/3) board →
A1(2/3)-2 – 130 –

– 131 – A1(2/3)-1 – 132 –

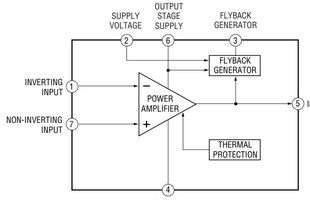


KV-ES34K9H/ES38K9H
RM-970 RM-970

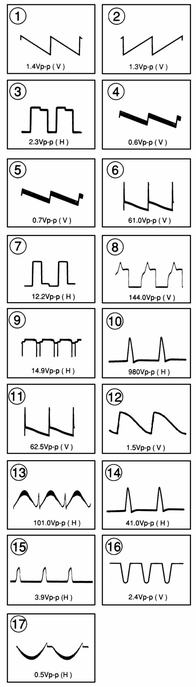
D (2/3) BOARD : IC5511 CXA2026AS



D (2/3) BOARD : IC5004 STV9379

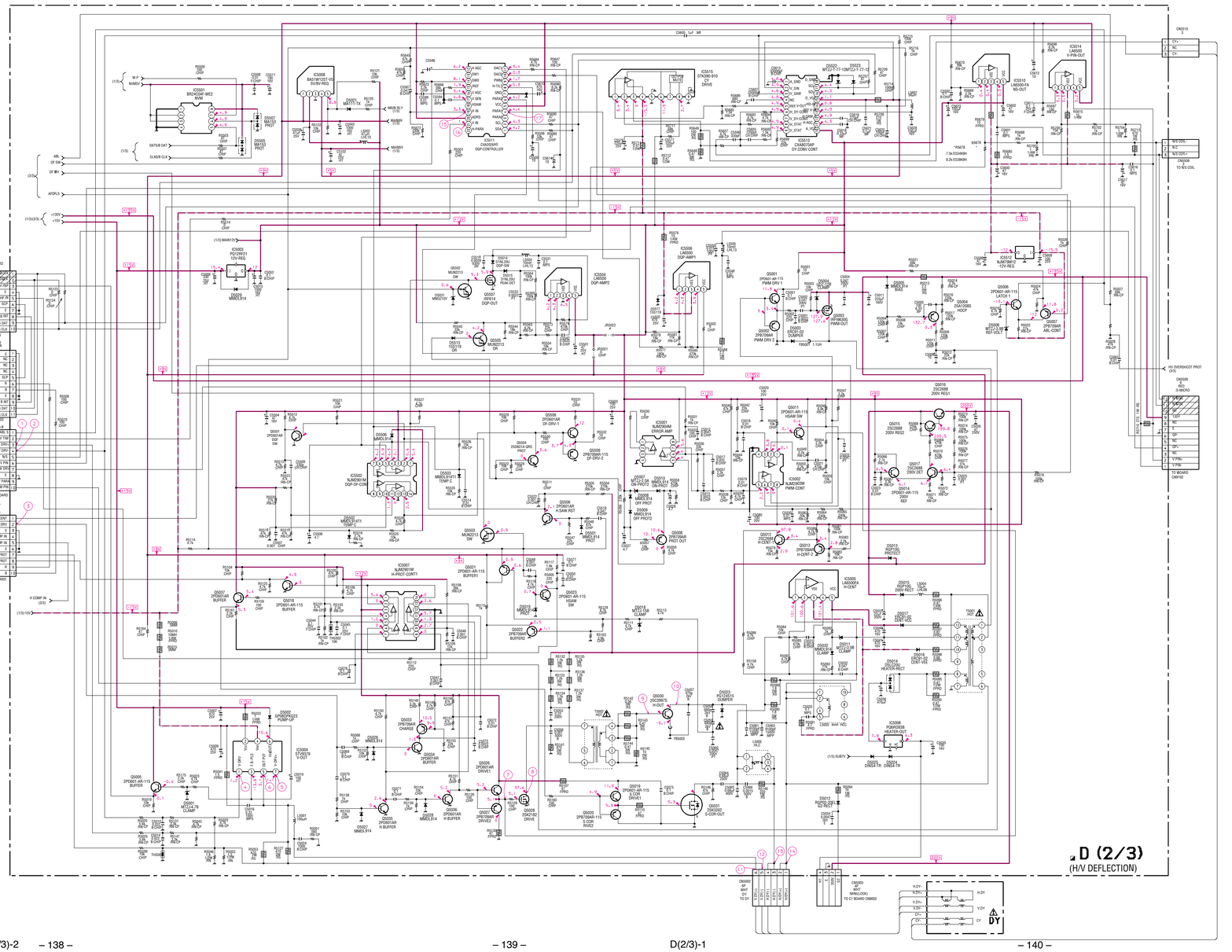


• D(2/3) BOARD WAVEFORMS



KV-ES34K9H/ES38K9H
RM-970 **RM-970**

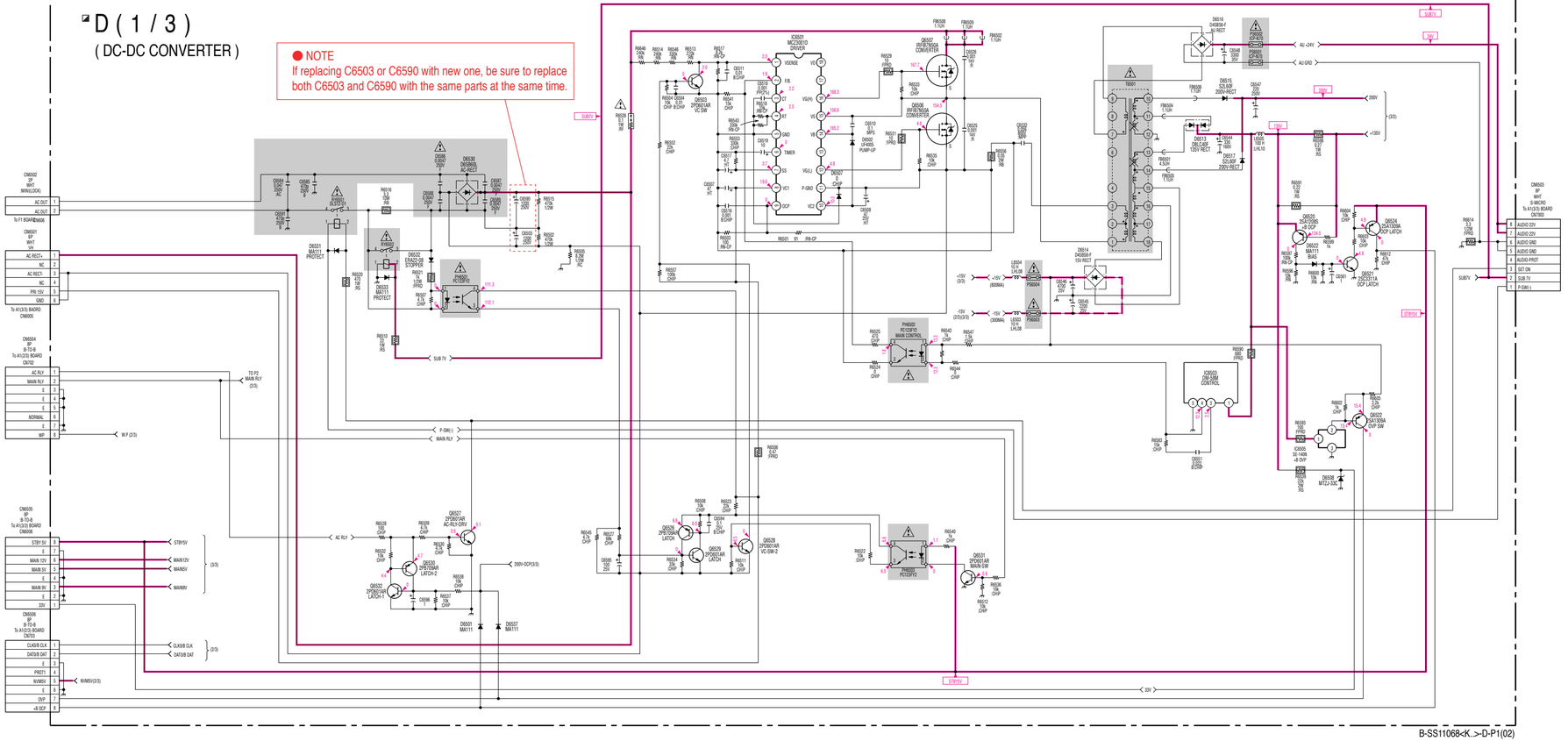
Schematic diagram ← A (3/3) board
D1(2/3)-3 – 137 –
Schematic diagram D (2/3) board →
D(2/3)-2 – 138 –
– 139 –
D(2/3)-1
– 140 –



D (1 / 3)

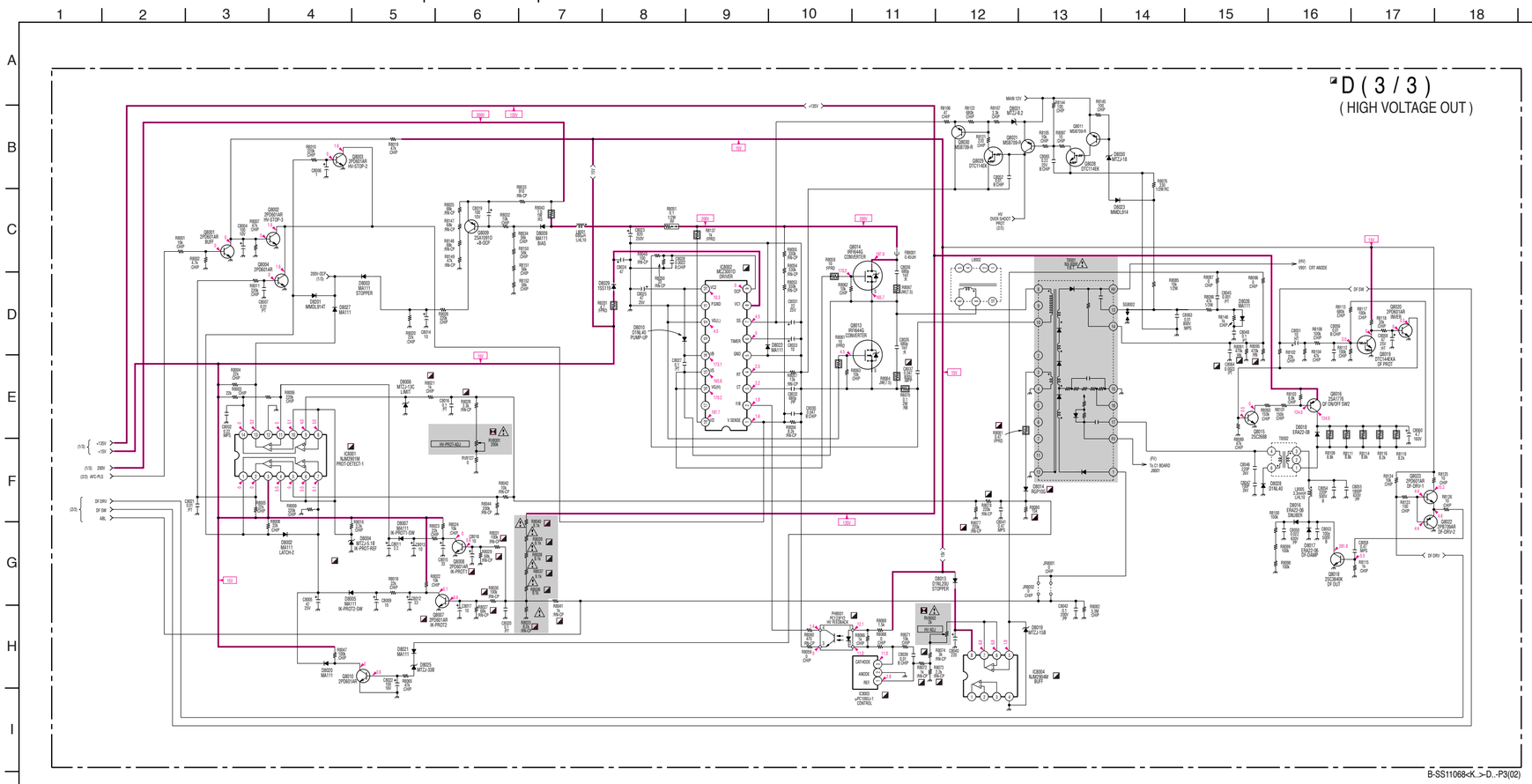
(DC-DC CONVERTER)

● NOTE
If replacing C6503 or C6590 with new one, be sure to replace both C6503 and C6590 with the same parts at the same time.



B-SS11068<K..>-D-P1(02)

KV-ES34K9H/ES38K9H
RM-970 RM-970



D BOARD

IC

	L	R
IC5001		B-5
IC5002		B-6
IC5003	G-6	B-6
IC5004	E-2	D-2
IC5005	E-4	D-4
IC5006	D-5	E-5
IC5007		A-4
IC5008		A-6
IC5501		A-5
IC5502	C-11	H-10
IC5504		G-11
IC5506	C-11	F-11
IC5510		F-9
IC5511	A-11	H-11
IC5512		G-10
IC5513	A-9	H-9
IC5514		F-9
IC5515	B-8	G-8
IC6501	G-8	B-8
IC6503	D-11	E-11
IC6505	D-10	E-10
IC8001		H-7
IC8002	B-5	G-5
IC8003	D-4	E-4
IC8004		F-4
IC8005		F-4

PHOTO COUPLER

	L	R
PH6501	F-10	D-10
PH6502	F-8	D-8
PH6503	E-9	D-9
PH8001	C-5	F-5

TRANSISTOR

	L	R	✻
Q5001		B-6	①
Q5002		B-6	①
Q5003	E-5	D-5	
Q5004	D-6	E-6	
Q5005		D-1	①
Q5006		H-10	①
Q5007		H-10	①
Q5008		G-10	①
Q5011		A-6	①
Q5012	D-4	E-4	
Q5013		E-4	①
Q5014		E-4	①
Q5015	E-5	E-5	
Q5016	E-5	D-5	
Q5017	D-4	E-4	
Q5018		A-5	①
Q5019		B-1	①
Q5020		B-1	①
Q5021		B-1	①
Q5022		B-1	①
Q5023		A-4	①
Q5026		C-6	①
Q5027		C-6	①
Q5028	F-6	C-6	
Q5030	G-3	B-3	
Q5031	G-1	B-1	
Q5033		B-5	①
Q5034		B-4	①
Q5035		S-4	①
Q5036		B-4	①
Q5037		A-5	①
Q5501		H-10	①
Q5502		G-10	①
Q5503		H-10	①
Q5505		G-10	①
Q5506		H-11	①
Q5507	B-10	G-10	
Q5508		H-11	①
Q5509		H-11	①
Q6503		D-9	①
Q6506	F-8	C-7	
Q6507	G-7	B-7	
Q6520	D-10	E-10	
Q6521	D-11	E-11	
Q6522	D-11	E-11	
Q6524	D-11	E-11	
Q6526		D-9	①
Q6527		D-11	①
Q6528		D-9	①
Q6529		C-10	①
Q6530		D-11	①
Q6531		D-10	①
Q6532		D-10	①
Q8001		G-7	①
Q8002		G-7	①
Q8003		G-7	①
Q8004		G-8	①
Q8007		H-7	①
Q8008		H-8	①
Q8009	C-7	F-7	
Q8010		H-6	①
Q8013	C-6	F-6	
Q8014	B-6	G-6	
Q8015	C-1	F-1	
Q8016	D-1	E-1	
Q8018	D-2	F-2	
Q8019		F-1	①
Q8020		F-1	①
Q8022		E-3	①
Q8023		E-3	①

DIODE

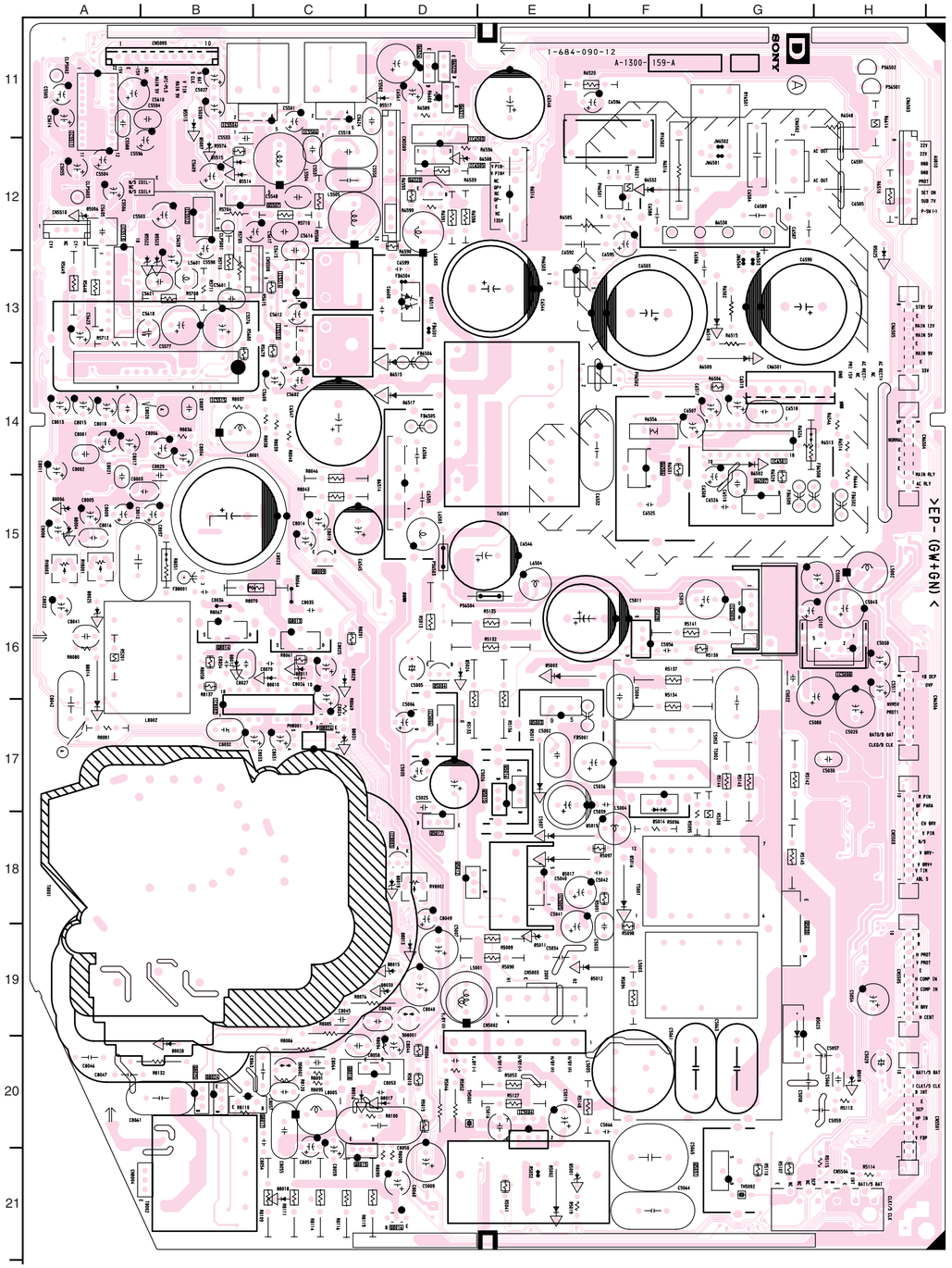
	L	R	✻
D5001	E-1	D-1	
D5002	E-1	D-1	
D5003	E-6	D-6	
D5004		D-5	③
D5005		E-6	③
D5006	A-10	H-10	
D5007	B-10	G-10	
D5008		G-10	③
D5009		G-10	③
D5010		G-10	③
D5011	E-3	D-3	
D5012	E-3	D-3	
D5013	E-5	D-5	
D5014	F-4	C-4	
D5015	E-4	D-4	
D5016	F-4	C-4	
D5017	E-4	D-4	
D5018	H-2	A-2	
D5019		A-4	③
D5021		B-6	③
D5023	G-3	B-2	
D5024	D-6	E-6	
D5025	H-9	A-9	
D5026		A-4	③
D5027		A-4	③
D5028		B-4	③
D5029		B-6	③
D5031		G-10	③
D5032		D-3	③
D5501		G-10	③
D5502		H-10	③
D5503		H-11	③
D5505		A-6	③
D5506		H-10	③
D5507		A-5	③
D5513	B-11	G-11	
D5514	B-11	G-11	
D5515	B-11	G-11	
D5517	D-11	F-11	
D5522	B-9	H-9	
D5523	B-9	H-9	
D6501		D-10	③
D6502	G-8	B-8	
D6507		B-7	
D6508	D-10	E-10	
D6513	D-9	E-9	
D6514		E-7	
D6515	D-8	E-8	
D6516	E-10	D-10	
D6517	D-8	E-8	
D6522		E-11	③
D6530	G-10	C-10	
D6531		C-11	③
D6532	F-10	C-10	
D6533		D-11	③
D6537		D-10	③
D8002		H-7	③
D8003		G-8	③
D8004	A-7	H-7	
D8005		H-7	③
D8006	A-7	H-7	
D8007		H-8	③
D8009		F-7	
D8010	C-6	G-6	
D8013	D-3	E-3	
D8014	A-6	H-5	
D8015		E-3	
D8016		F-2	
D8017		F-2	
D8018		F-1	
D8019	D-4	E-4	
D8020		H-6	③
D8021		H-6	③
D8022		F-5	③
D8023		F-3	③
D8025	A-6	H-6	
D8026		F-3	
D8027		H-8	③
D8028	B-2	G-3	
D8029	C-6	F-6	
D8030	D-3	F-3	
D8031	C-5	F-5	
D8201		G-8	③

L ; component side
R ; conductor side

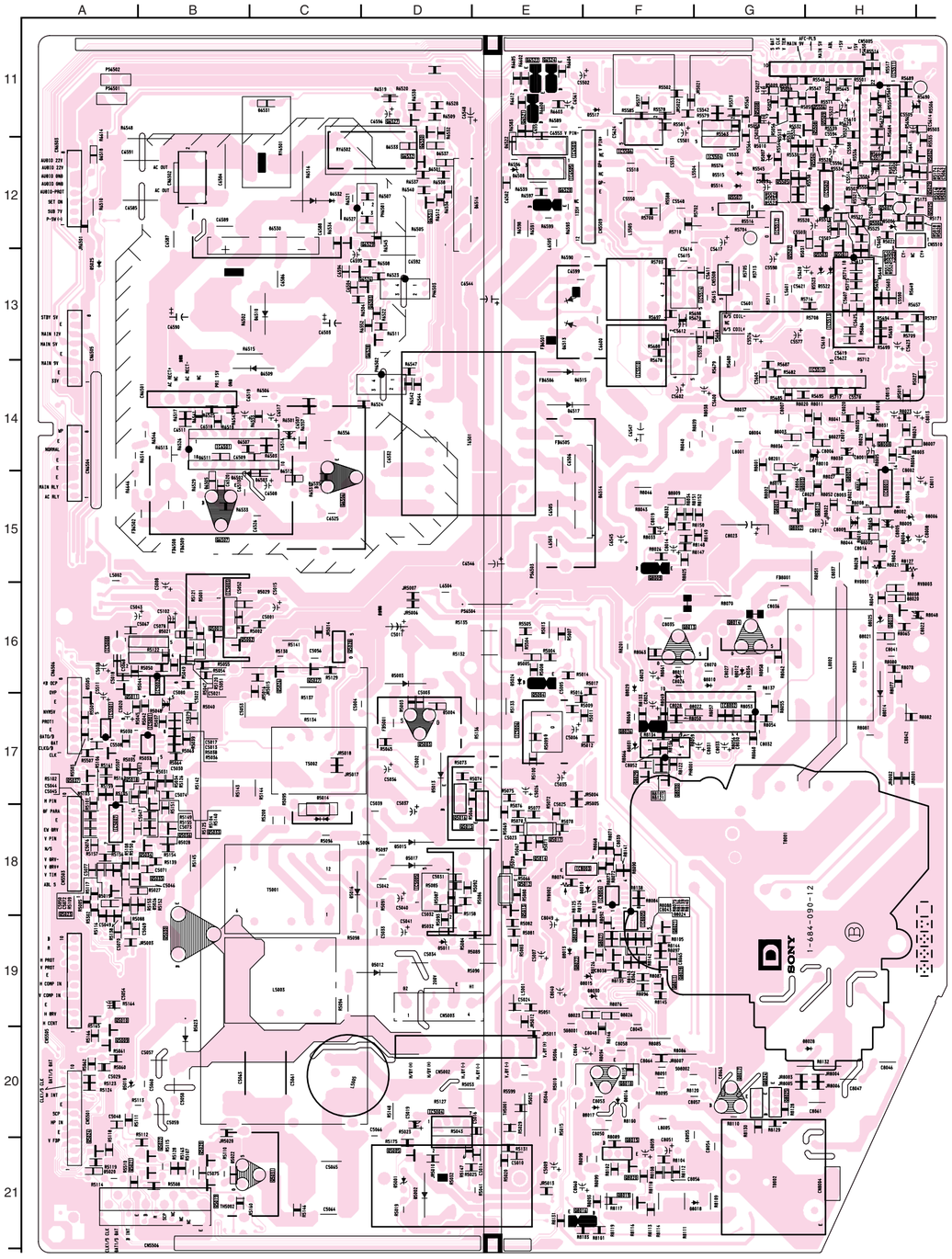
KV-ES34K9H/ES38K9H
RM-970 **RM-970**

D [H/V DEFLECTION, DC-DC CONVERTER]

< Component side >

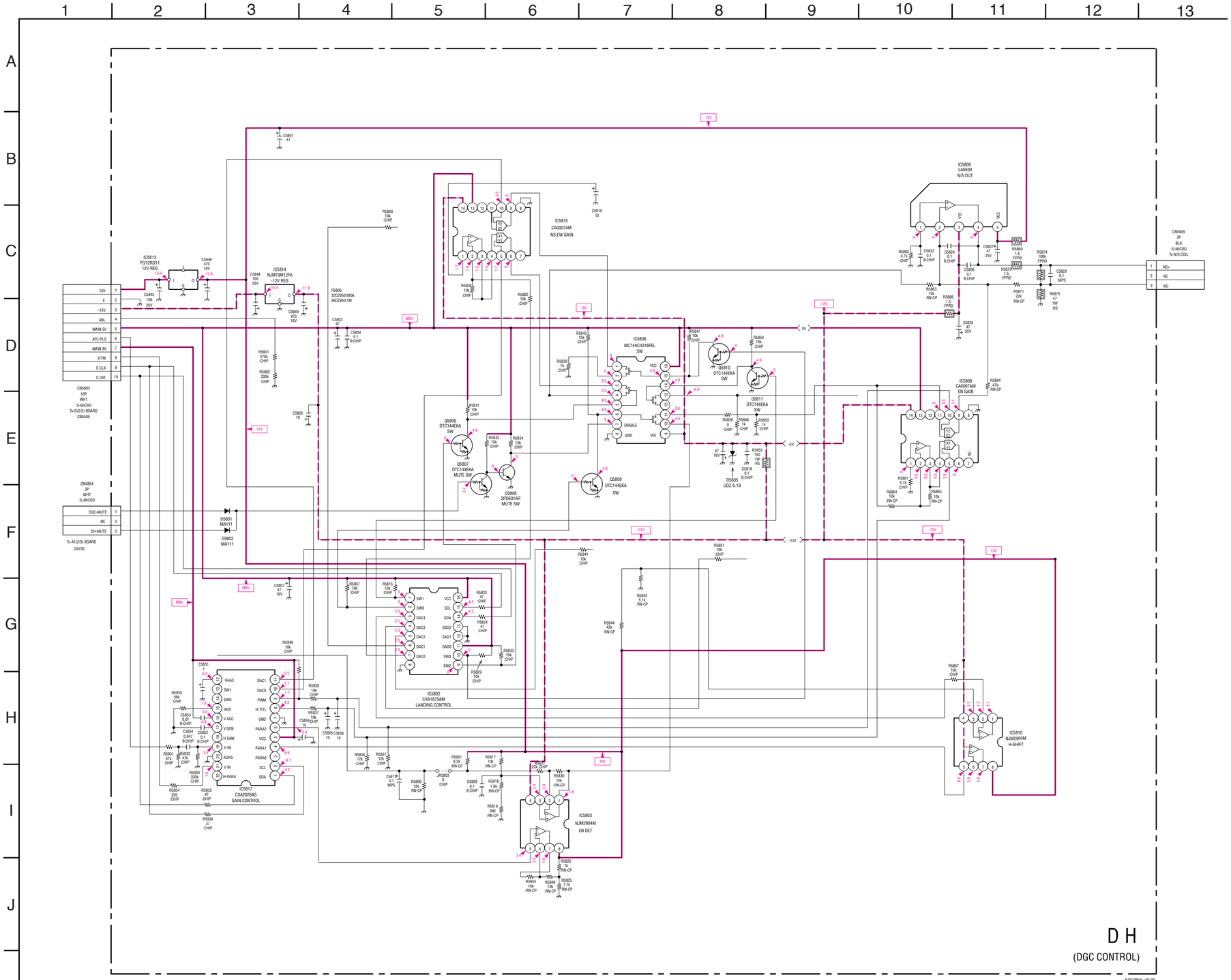


< Conductor side >



KV-ES34K9H/ES38K9H
RM-970 RM-970

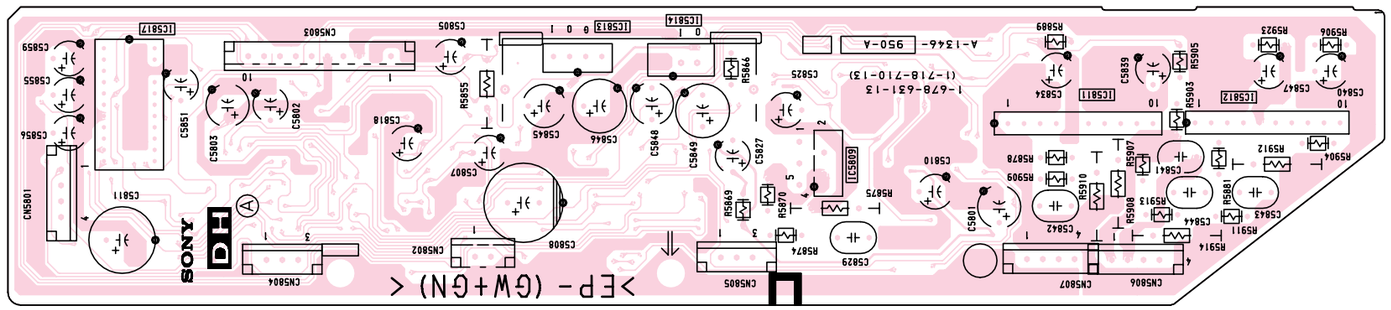
Schematic diagram
← D(3/3) board



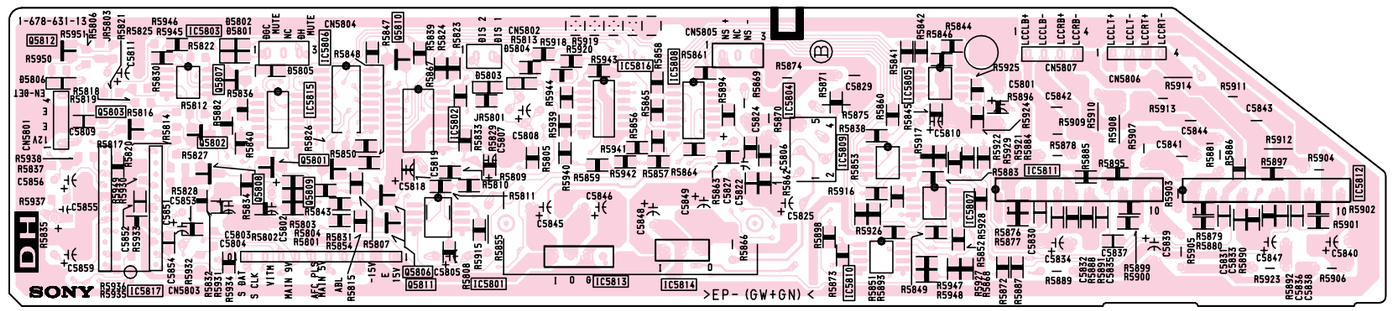
KV-ES34K9H/ES38K9H
RM-970 **RM-970**

DH [DGC CONTROL]

< Component side >

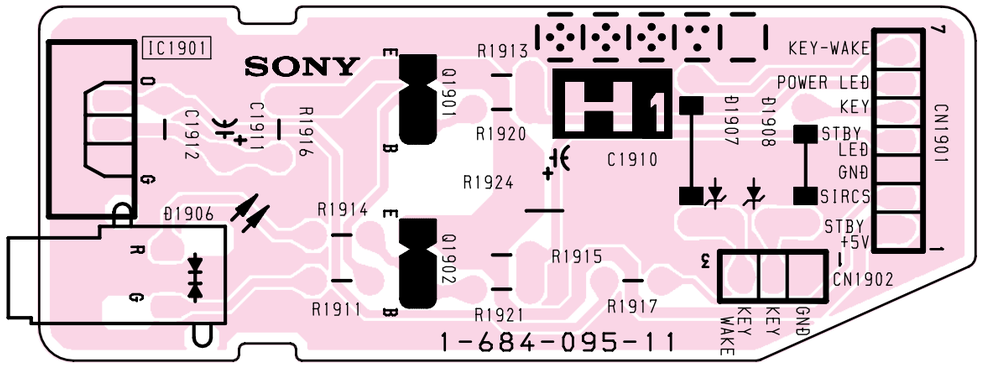


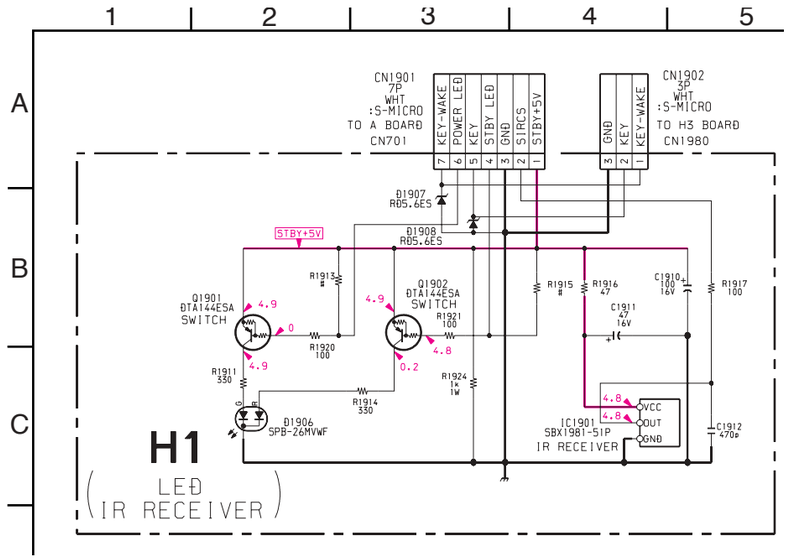
< Conductor side >



H1 [LED IR RECEIVER]

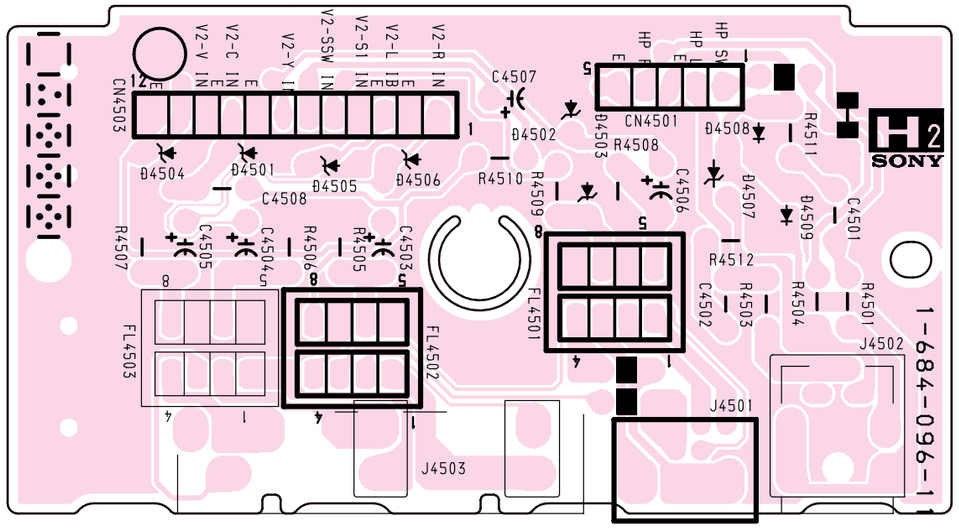
< Conductor side >

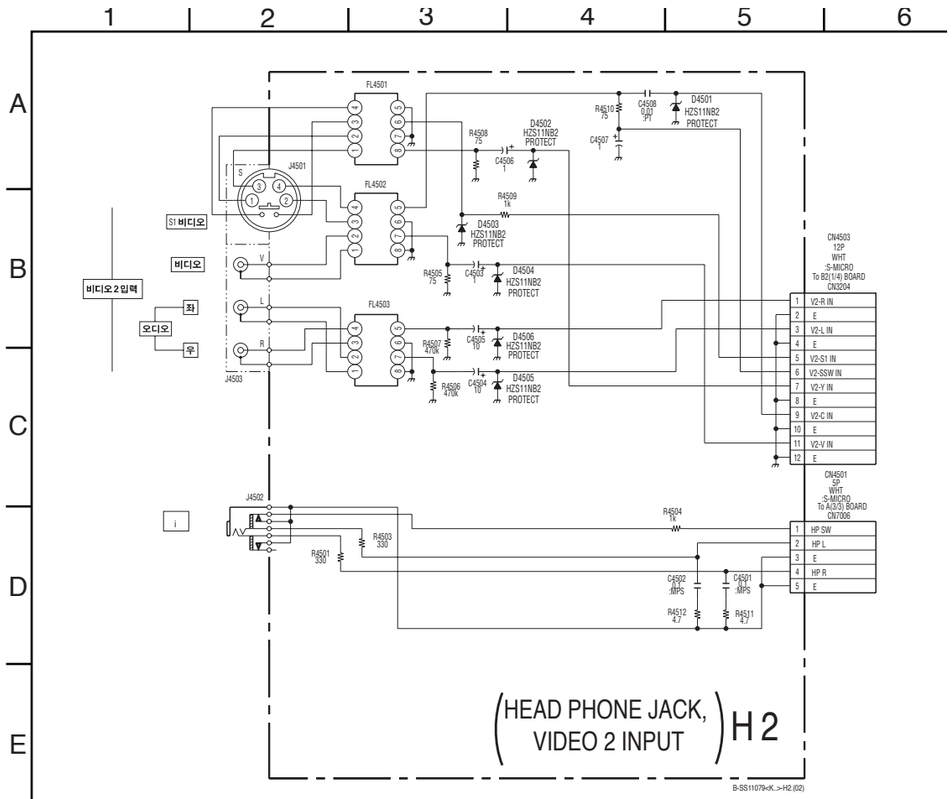




H2 [HEADPHONE JACK, VIDEO 2 INPUT]

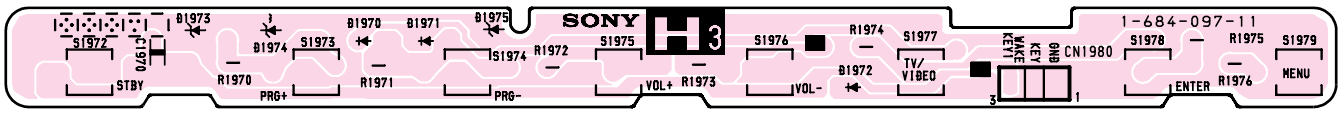
< Conductor side >

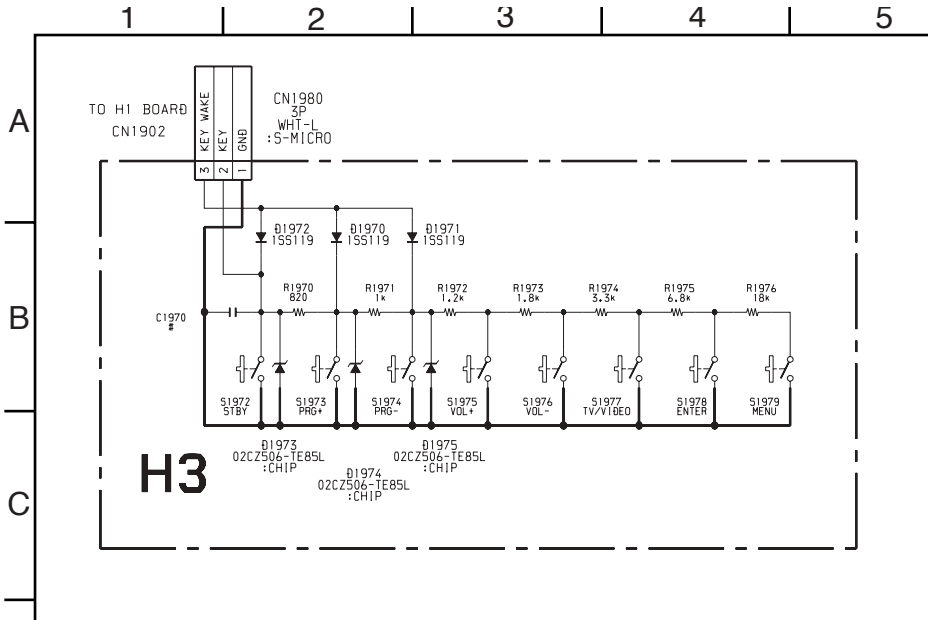




H3 [CONTROL SWITCHES]

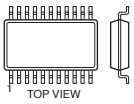
< Conductor side >





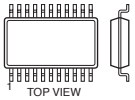
6-4. SEMICONDUCTORS

BH3868AFS-E2



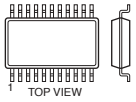
32 pin SOP

BR24C04F-WE2
BR24C08F
MN24C04-WMN6T
NJM2521M-TE1
NJM2903M
NJM2904M
NJM4558E(TE2)
SN74LV4053ANSR
TC7WU04FU(TE12R)
TDA2822D



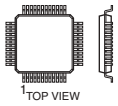
8 pin SOP

CA0007AM
MA52055FP
MC74HC4066F
TLC2932IPW
TLC2933IPWR-12



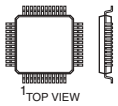
14 pin SOP

CXA2073Q-T4 C1F



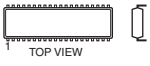
32 pin QFP

CXA2103Q
CXA2151Q
CXD2309Q-T6



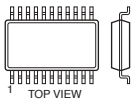
48 pin QFP

CXA8070P
MCZ3001D



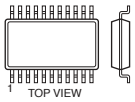
18 pin DIP

CXD2057M-T6
TEA6422DT



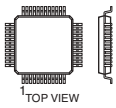
28 pin SOP

CXD2085M-T4
MC74HC4316FEL



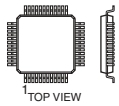
16 pin SOP

CXD2095Q



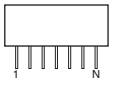
208 pin QFP

CXD9509AQ

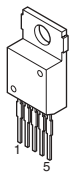


240 pin QFP

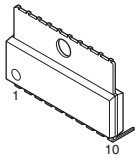
DM-58



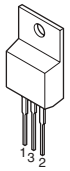
LA6500-FA



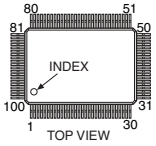
LA6510



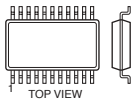
LM7912CT



M306V2ME-188FP
MB94918RPF-G-130-BND

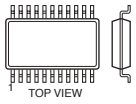


MSM56V16160D-10TS-K



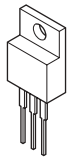
50 pin SOP

MB81F643242B-10FN

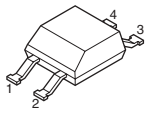


86 pin SOP

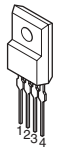
NJM78M12FA



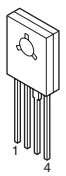
PC123FY2



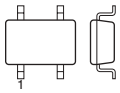
PQ05RD11
PQ05RF21
PQ09RD11
PQ12RD11
PQ12RF21



PQ30RV11
PQ30RV21

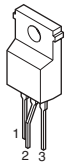


PST9120NL
PST9145NL
TC7SET08FU(TE85L)

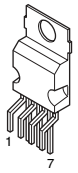


5 pin CHIP

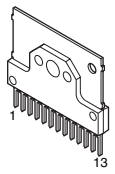
SE-140N



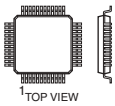
STV9379



TDA6120Q/N2/S1



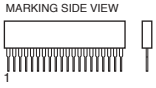
TLC5733AIPM



64 pin QFP

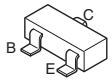
UPC1093J-1-T

UPC1406HA

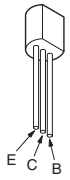


8 pin SIP

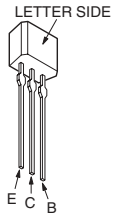
2SA1037AK-T146
2SA1162-G
2SA1226
2SA1576A-T106-R
2SC1623-L5L6
2SC3624A
2SC4081-R
2SD601A-Q-TX
DTA114EKA-T146
DTA143EK
DTA143EKA-T146
DTA144EKA-T146
DTC114EK
DTC114EKA-T146
DTC144EK
DTC144EKA
DTC144EKA-T146
DTC144EK-T146



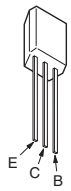
2SA1091-TPE2
2SA1208S-TP



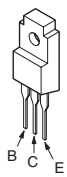
2SA1175-HFE
2SC3311A-QRSTA



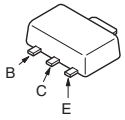
2SA1776TV2Q
2SC2603-EF



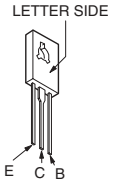
2SA2005
2SC5511



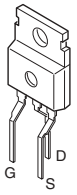
2SB798-DL
2SB798-T1DL
2SK2036(TE85L)



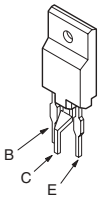
2SC2688-LK
2SC3840(3)



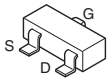
2SC3997S-SONY



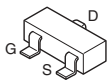
2SC4632LS-CB7
2SC4634LS-CB11



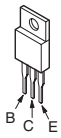
2SK1572S



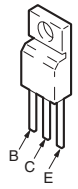
2SK1828TE85L



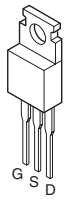
IRF614



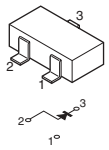
IRFI644G-LF36



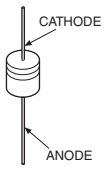
IRFI9630GS



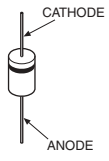
02CZ3.9-TE85L
02CZ5.6-TE85L
02CZ6.8-TE85L



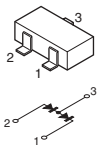
1SS119-25
D1NS4
MTZJ-13C
MTZJ-33C
MTZJ-4.7
MTZJ-4.7C
MTZJ-7.5B
MTZJ-T-77-12
MTZJ-T-77-22
RD10ES-B2
RD10ES-T1B2
RD11ES-B2
RD15ES-B1
RD15ES-B2
RD2.0ES-B1
RD3.9ES-B2
RD5.1ES-B2
RD6.8ES-B2



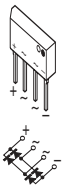
1SS133T-77
ERA22-08
ERC04-06SE
ERC91-02



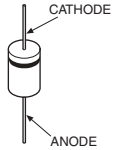
1SS226
MA153-TX



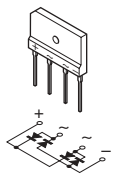
5LC20U
D5SC4M
D8LC40



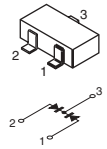
D1NL20U-TR
D1NL20U-TR2
D2S6M



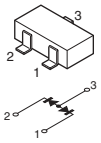
D1NL40-TA2
D4SBS6-F
D6SB60L



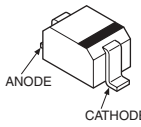
DAN202K



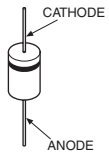
DAP202K



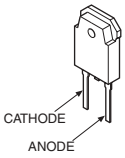
DTZ-TT11-3.6
DTZ10B
DTZ5.1B
HZU10BTRF
HZU11B1TRF
HZU6.8BTRF
MA111-(K8).S0
MA113-(TX)
RD3.0ES-B2
SC016-2-TE12RA
UDZ-TE-17-10B
UDZ-TE-17-6.8B



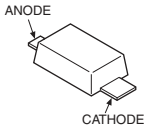
EL1Z
GP08D
HSS83TD
RGP02-20EL-6394
UF4005PKG23



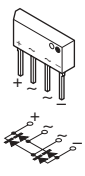
FMQ-G5FMS



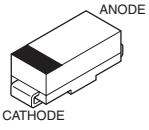
MA8039



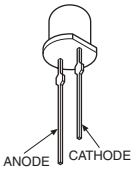
S1VB20



SC802-06



SLR-56MCF



SECTION 7
EXPLODED VIEWS

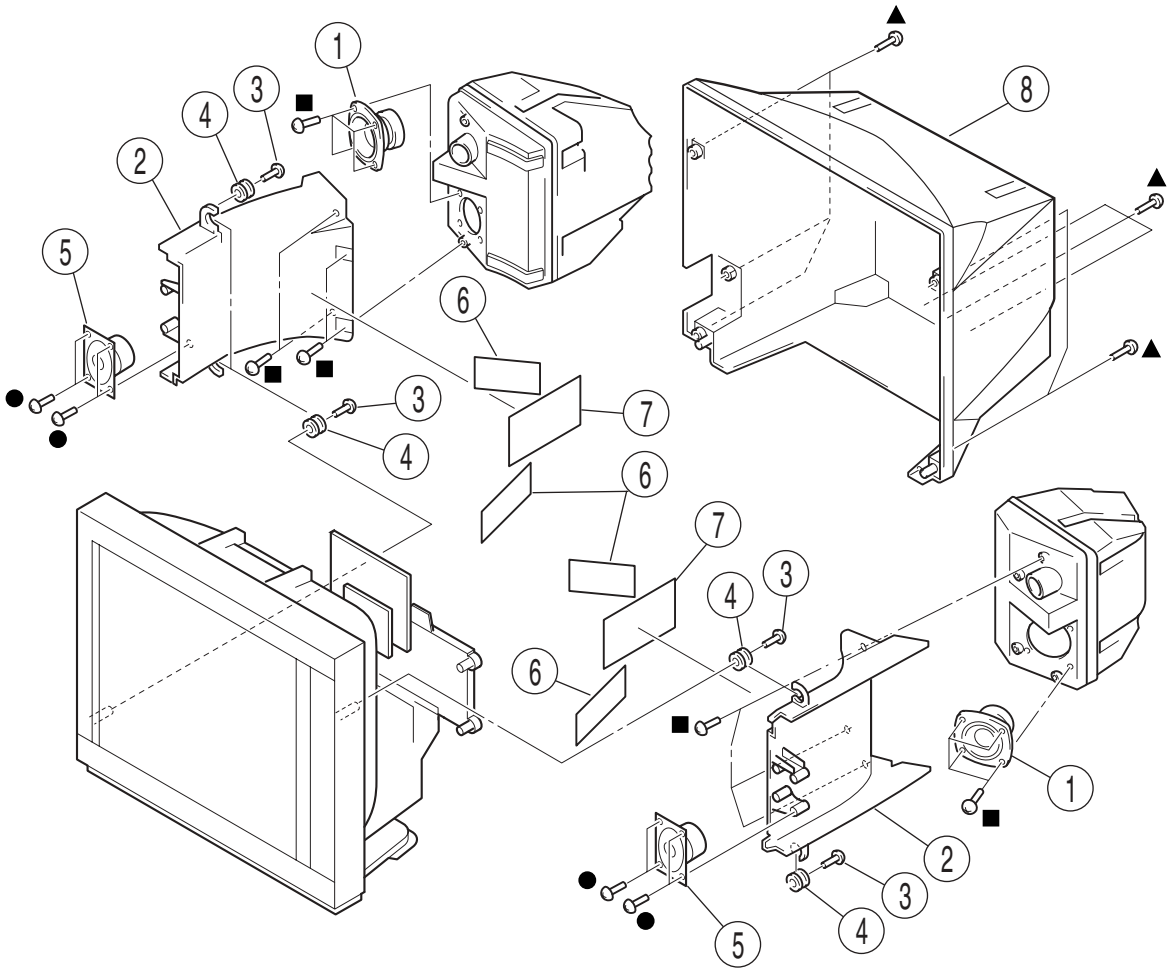
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. SPEAKER SECTION (ES34K9H)

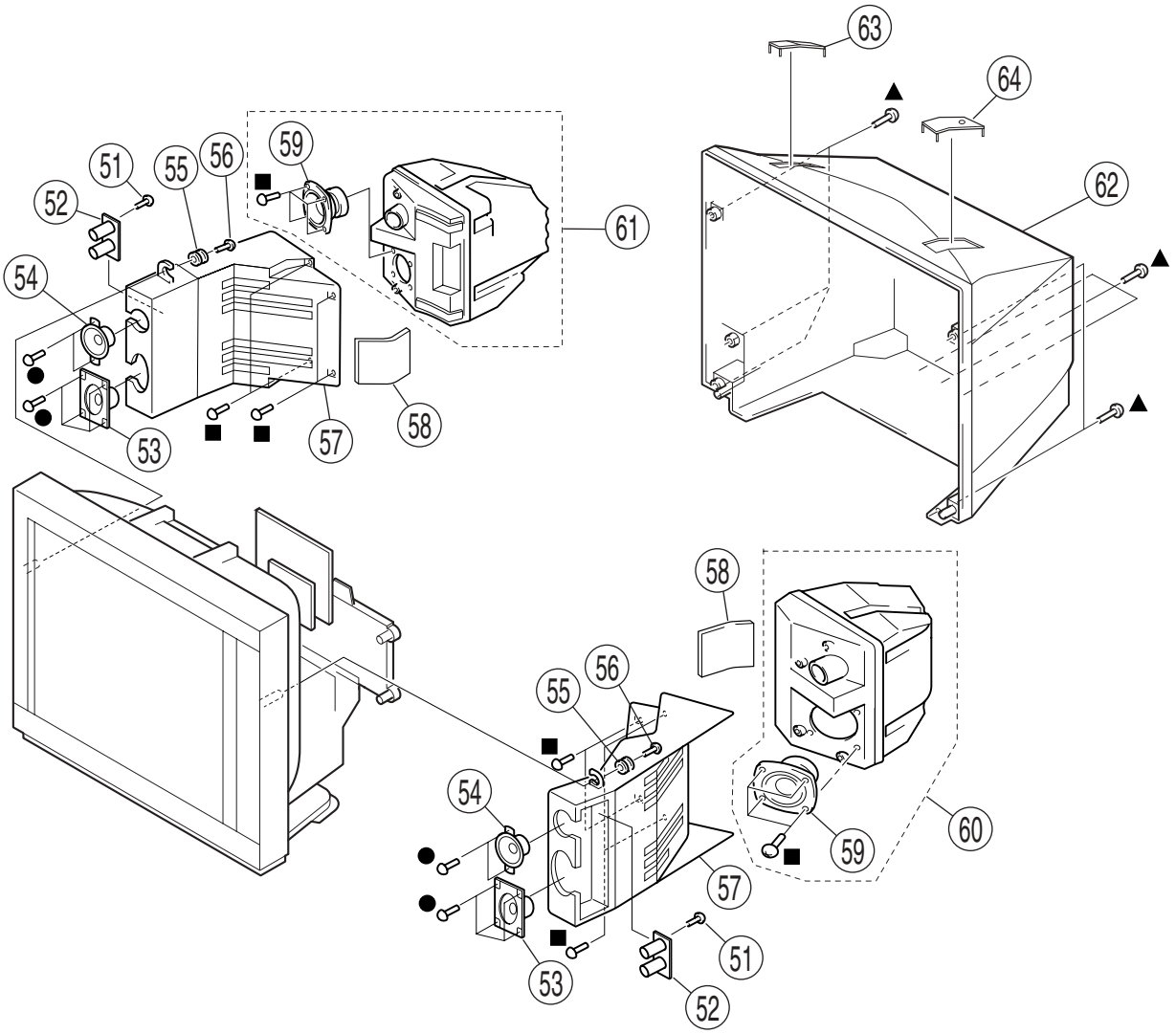
● : 7-685-648-79 SCREW +BVTP 3X12 TYPE2 IT-3
■ : 7-685-663-71 SCREW +BVTP 4X16 TYPE2 IT-3
▲ : 7-685-664-79 SCREW +BVTP 4X20 TYPE2 IT-3



REF. NO.		PART NO.	DESCRIPTION	REMARK
1		1-505-473-11	SPEAKER (12cm)	
2	*	4-071-339-01	DUCT, SPEAKER	
3		4-064-929-02	SCREW, TP+TWH 4X25	
4		4-374-745-11	CUSHION (A)	
5		1-529-562-11	SPEAKER (7X4cm)	
6	*	4-074-512-01	CUSHION (S), DGC	
7	*	4-073-084-02	DUCT, CUSHION	
8		X-4040-064-1	COVER ASSY, REAR	

7-2. SPEAKER SECTION (ES38K9H)

● : 7-685-648-79 SCREW +BVTP 3X12 TYPE2 IT-3
■ : 7-685-663-71 SCREW +BVTP 4X16 TYPE2 IT-3
▲ : 7-685-664-79 SCREW +BVTP 4X20 TYPE2 IT-3

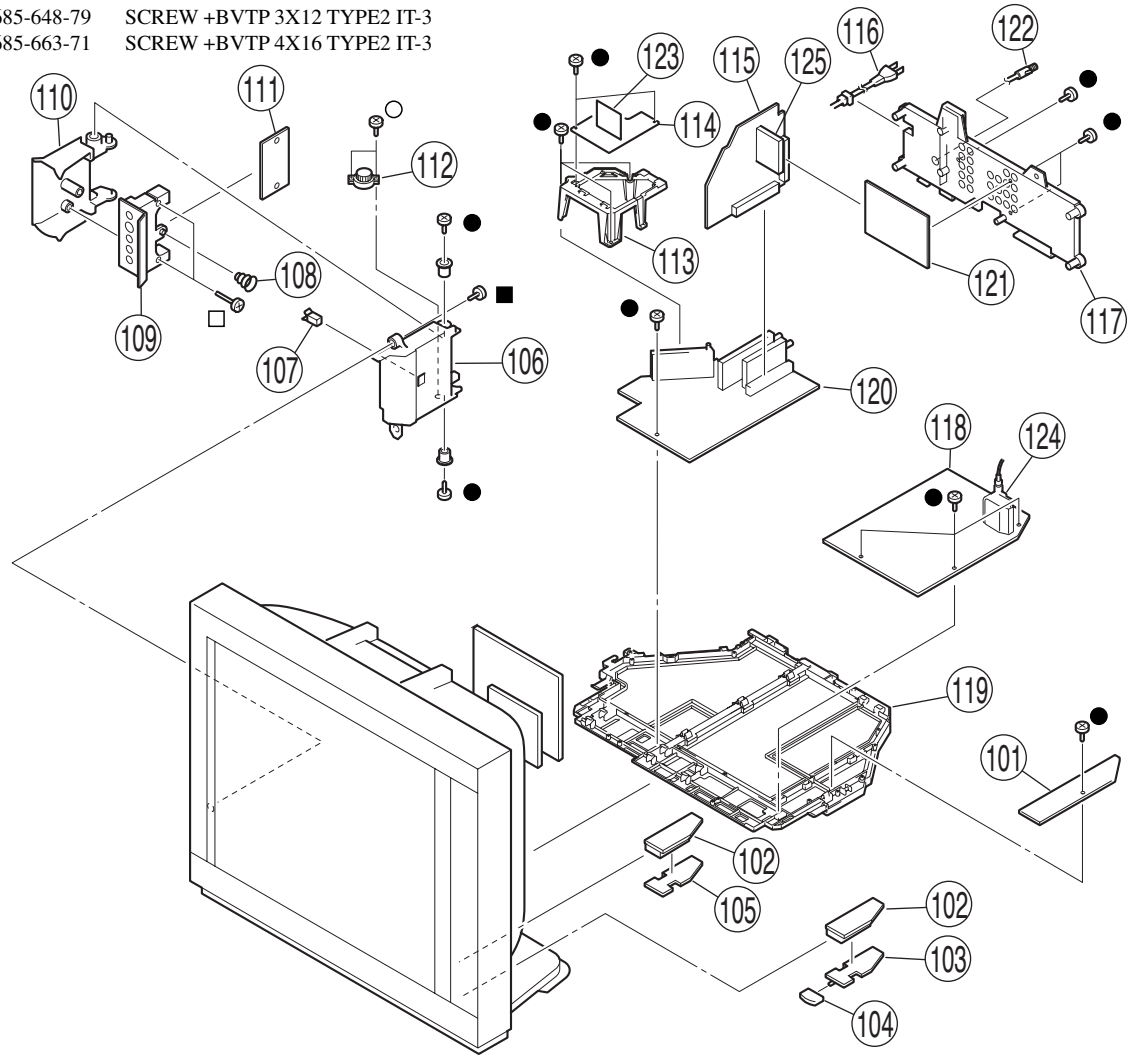


REF. NO.		PART NO.	DESCRIPTION	REMARK
51		4-046-797-01	SCREW (3X12), (+)BVTAP	
52	*	A-1391-163-A	SP BOARD, COMPLETE	
53		1-529-939-11	SPEAKER (9X5cm)	
54		1-529-940-11	SPEAKER (5cm)	
55		4-374-745-11	CUSHION (A)	
56		4-064-929-02	SCREW, TP+TWH 4X25	
57	*	4-079-164-01	DUCT, SPEAKER	
58	*	4-073-084-02	DUCT, CUSHION	
59		1-505-473-11	SPEAKER (12cm)	
60		A-1501-820-A	SP BOX (R) SUB ASSY	59
61		A-1501-818-A	SP BOX (L) SUB ASSY	59
62		X-4040-082-1	COVER ASSY, REAR	
63		4-079-337-11	COVER, SCREW (L)	
64		4-079-336-11	COVER, SCREW (R)	

7-3. CHASSIS SECTION

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

○ : 7-685-103-19 SCREW +P 2X5 TYPE2 NON-SLIT
□ : 7-685-152-19 SCREW +P 3X25 TYPE2 NON-SLIT
● : 7-685-648-79 SCREW +BVTP 3X12 TYPE2 IT-3
■ : 7-685-663-71 SCREW +BVTP 4X16 TYPE2 IT-3



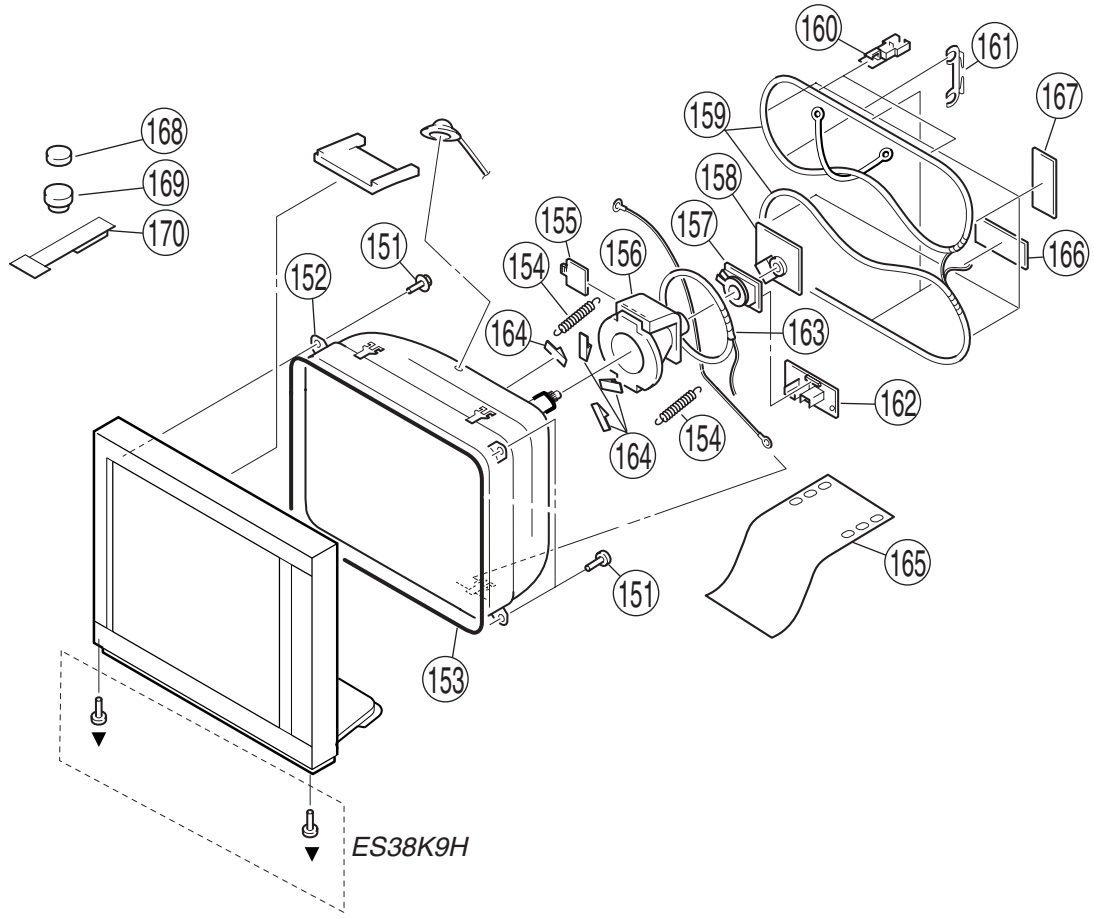
REF. NO.		PART NO.	DESCRIPTION	REMARK
101	*	A-1400-663-A	DH BOARD, COMPLETE	
102	*	4-071-307-03	HOLDER, F2/H1	
103	*	A-1400-570-A	F2 BOARD, COMPLETE	
104		4-071-305-11	BUTTON, POWER	
105	*	A-1400-571-A	H1 BOARD, COMPLETE	
106	*	4-071-310-04	BRACKET, SIDE	
107		4-047-464-01	CATCHER, PUSH	
108		4-071-323-01	SPRING, CONE	
109	*	X-4040-058-1	HOLDER ASSY, CONTROL	
110		4-071-308-11	DOOR, CONTROL	
111	*	A-1400-569-A	H2 BOARD, COMPLETE	
112		3-022-410-22	DAMPER	
113	*	4-078-457-03	BRACKET, F1	
114	*	A-1300-331-A	F1 BOARD, COMPLETE	
115	*	A-1300-481-A	B2 BOARD, COMPLETE (ES34K9H)	

REF. NO.		PART NO.	DESCRIPTION	REMARK
115	*	A-1300-482-A	B2 BOARD, COMPLETE (ES38K9H)	
116	⚠	1-823-473-11	CORD, POWER (WITH FILTER)	
117		4-086-538-01	BRACKET, TERMINAL	
118	*	A-1300-332-A	D BOARD, COMPLETE (ES34K9H)	
118	*	A-1300-334-A	D BOARD, COMPLETE (ES38K9H)	
119	*	4-077-330-17	BRACKET, MAIN	
120	*	A-1300-330-A	A1 BOARD, COMPLETE (ES34K9H)	
120	*	A-1300-483-A	A1 BOARD, COMPLETE (ES38K9H)	
121	*	A-1400-567-A	U1 BOARD, COMPLETE	
122		1-792-458-11	CABLE, RF (WITH FERRITE)	
123	*	A-1391-032-A	ST BOARD, COMPLETE	
124	⚠	1-453-351-21	FBT ASSY NX-6000//M3J4 (T8001)	(ES38K9H)
124	⚠	1-453-380-12	FBT ASSY NX-6000//M3B4 (T8001)	(ES34K9H)
125	*	A-1300-133-A	BC9 BOARD, COMPLETE	

7-4. PICTURE TUBE SECTION

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

▼ : 7-682-262-04 SCREW +K 4X10 (ES38K9H)

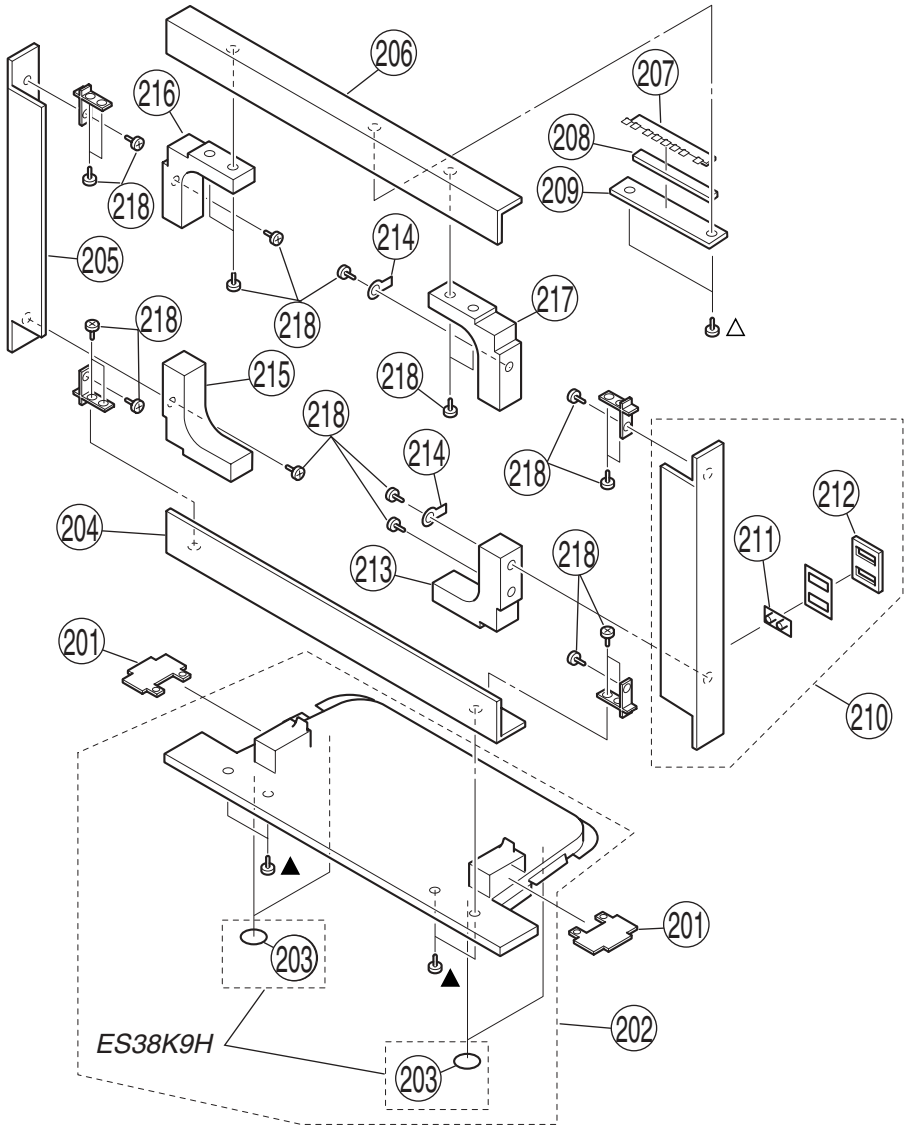


REF. NO.		PART NO.	DESCRIPTION	REMARK
151		4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
152	⚠	8-735-062-00	PICTURE TUBE (A80LPD10X)	
				(ES34K9H)
152	⚠	8-735-088-00	PICTURE TUBE (A90LPW80X)	
				(ES38K9H)
153		1-456-032-11	COIL, LANDING CORRECTION	
				(ES34K9H)
153		1-456-033-11	COIL, LANDING CORRECTION	
				(ES38K9H)
154		4-065-852-21	SPRING, EXTENSION (ES34K9H)	
154		4-369-318-61	SPRING, TENSION (ES38K9H)	
155		2-163-920-01	PLATE, TLH CORRECTION	
156	⚠	8-451-512-21	DEFLECTIOM YOKE Y34RSC2-Y3	
				(ES34K9H)
156	⚠	8-451-516-21	DEFLECTIOM YOKE Y38RSC	
				(ES38K9H)
157	⚠	8-453-009-21	NA325-M2	

REF. NO.		PART NO.	DESCRIPTION	REMARK
158	*	A-1332-078-A	C1 BOARD, COMPLETE	
159	⚠	1-419-293-11	COIL, DEGAUSSING (ES34K9H)	
159	⚠	1-419-845-11	COIL, DEGAUSSING (ES38K9H)	
160		4-067-221-02	CLIP, DGC (ES34K9H)	
160	*	4-080-511-01	CLIP, DGC (ES38K9H)	
161	*	4-054-297-01	HOLDER, DGC	
162	*	A-1342-559-A	V BOARD, COMPLETE	
163	⚠	1-451-498-21	COIL, NA ROTATION	
164		3-703-961-01	SPACER, DY (ES38K9H)	
164		4-046-600-01	SPACER, DY (ES34K9H)	
165		4-079-361-04	DY SHIELD (DZ)	
166	*	4-074-512-01	CUSHION (S), DGC (ES34K9H)	
167	*	4-074-513-01	CUSHION (L), DGC (ES34K9H)	
168		1-452-032-00	MAGNET,DISC	
169		1-452-094-00	CIRCULAR DISC MAGNET B	
170		4-051-734-42	PIECE B(120), CONV, CORRECT	

7-5. FRAME, FRONT COVER SECTION

△ : 7-685-661-14 SCREW +BVTP 4X12 TYPE2 IT-3
▲ : 7-685-664-79 SCREW +BVTP 4X20 TYPE2 IT-3



REF. NO.		PART NO.	DESCRIPTION	REMARK
201	*	4-071-673-01	SHEET, COVER	
202	*	4-086-539-01	COVER, FRONT (ES34K9H)	
202	*	X-4040-077-1	FRONT COVER ASSY	203 (ES38K9H)
203	*	4-081-847-01	FOOT (ES38K9H)	
204		X-4040-059-1	FRAME SUB ASSY, BOTTOM (ES34K9H)	
204		X-4040-079-1	FRAME SUB ASSY, BOTTOM (ES38K9H)	
205		X-4040-062-1	FRAME SUB ASSY, LEFT (ES34K9H)	
205		X-4040-081-1	FRAME SUB ASSY, LEFT (ES38K9H)	
206		X-4040-060-1	FRAME SUB ASSY, TOP (ES34K9H)	
206		X-4040-078-1	FRAME SUB ASSY, TOP (ES38K9H)	
207		4-071-312-03	BUTTON, TOP SW	
208	*	A-1400-574-A	H3 BOARD, COMPLETE	
209	*	4-071-311-02	HOLDER, H3	
210		X-4040-061-1	FRAME SUB ASSY, RIGHT	211,212 (ES34K9H)

REF. NO.		PART NO.	DESCRIPTION	REMARK
210		X-4040-080-1	FRAME SUB ASSY, RIGHT	211,212 (ES38K9H)
211	*	4-071-306-01	LIGHT, GUIDE	
212	*	4-072-950-01	BRACKET, LIGHT GUIDE	
213	*	4-071-337-03	BRACKET (BR), CRT (ES34K9H)	
213	*	4-079-163-01	BRACKET (BR), CRT (ES38K9H)	
214		4-073-080-01	FASTEN	
215	*	4-071-338-03	BRACKET (BL), CRT (ES34K9H)	
215	*	4-079-162-01	BRACKET (BL), CRT (ES38K9H)	
216	*	4-071-336-03	BRACKET (TL), CRT (ES34K9H)	
216	*	4-079-160-02	BRACKET (TL), CRT (ES38K9H)	
217	*	4-071-335-04	BRACKET (TR), CRT (ES34K9H)	
217	*	4-079-161-02	BRACKET (TR), CRT (ES38K9H)	
218		4-072-956-01	SCREW SPECIAL (DIA.8) (+TP4X9)	

A1

SECTION 8
ELECTRICAL PARTS LIST

The components identified by shading and mark ⚠ are critial for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- The components identified by in ⧓ this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

- CAPACITORS
  PF : μμF
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION			REMARK
*	A-1300-330-A	A1 BOARD, COMPLETE			(ES34K9H)
*	A-1300-483-A	A1 BOARD, COMPLETE			(ES38K9H)
		**********			
*	1-555-110-00	CABLE, PIN			
	4-382-854-01	SCREW (M3X8), P, SW (+)			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
		<CAPACITOR>			
C001	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C002	1-126-933-11	ELECT	100UF	20%	16V
C004	1-126-967-11	ELECT	47UF	20%	50V
C005	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C006	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C007	1-119-827-11	ELECT	100UF	20%	25V
C008	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C009	1-128-551-11	ELECT	22UF	20%	25V
C010	1-119-827-11	ELECT	100UF	20%	25V
C011	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C012	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C013	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C015	1-126-933-11	ELECT	100UF	20%	16V
C017	1-126-964-11	ELECT	10UF	20%	50V
C021	1-107-714-11	ELECT	10UF	20%	16V
C022	1-107-714-11	ELECT	10UF	20%	16V
C023	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C025	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C027	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C028	1-119-827-11	ELECT	100UF	20%	25V
C030	1-126-933-11	ELECT	100UF	20%	16V
C032	1-126-933-11	ELECT	100UF	20%	16V
C035	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C037	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C038	1-127-720-91	ELECT	470UF	20%	16V
C039	1-128-551-11	ELECT	22UF	20%	25V
C041	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C048	1-126-964-11	ELECT	10UF	20%	50V
C051	1-107-714-11	ELECT	10UF	20%	16V
C052	1-107-714-11	ELECT	10UF	20%	16V
C201	1-126-960-11	ELECT	1UF	20%	50V
C205	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C210	1-127-760-11	CERAMIC CHIP	4.7UF	10%	6.3V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C211	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C212	1-126-933-11	ELECT	100UF	20%	16V
C213	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C214	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C216	1-126-933-11	ELECT	100UF	20%	16V
C217	1-107-823-11	CERAMIC CHIP	0.47UF	10%	16V
C219	1-110-563-11	CERAMIC CHIP	0.068UF	10%	16V
C220	1-107-823-11	CERAMIC CHIP	0.47UF	10%	16V
C221	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C222	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C223	1-136-001-71	FILM	100000PF	5%	50V
C224	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C225	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C226	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C227	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C229	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C230	1-107-823-11	CERAMIC CHIP	0.47UF	10%	16V
C232	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C233	1-164-492-11	CERAMIC CHIP	0.15UF	10%	16V
C234	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C235	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C236	1-126-964-11	ELECT	10UF	20%	50V
C237	1-104-665-11	ELECT	100UF	20%	10V
C238	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C239	1-126-964-11	ELECT	10UF	20%	50V
C240	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C241	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C242	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C243	1-107-823-11	CERAMIC CHIP	0.47UF	10%	16V
C244	1-163-017-00	CERAMIC CHIP	0.0047UF	10%	50V
C245	1-107-823-11	CERAMIC CHIP	0.47UF	10%	16V
C246	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C247	1-126-933-11	ELECT	100UF	20%	16V
C248	1-127-760-11	CERAMIC CHIP	4.7UF	10%	6.3V
C249	1-126-967-11	ELECT	47UF	20%	50V
C250	1-107-823-11	CERAMIC CHIP	0.47UF	10%	16V
C251	1-115-340-11	CERAMIC CHIP	0.22UF	10%	25V
C252	1-104-665-11	ELECT	100UF	20%	10V
C253	1-163-009-91	CERAMIC CHIP	0.001UF	10%	50V
C254	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C255	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C256	1-163-243-11	CERAMIC CHIP	47PF	5%	50V

A1

REF. NO.	PART NO.	DESCRIPTION			REMARK
C257	1-127-760-11	CERAMIC CHIP	4.7UF	10%	6.3V
C258	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C259	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C260	1-126-933-11	ELECT	100UF	20%	16V
C701	1-127-715-91	CERAMIC CHIP	0.22UF	10%	16V
C702	1-126-947-11	ELECT	47UF	20%	16V
C703	1-126-947-11	ELECT	47UF	20%	16V
C704	1-126-935-11	ELECT	470UF	20%	16V
C705	1-164-346-11	CERAMIC CHIP	1UF		16V
C708	1-164-346-11	CERAMIC CHIP	1UF		16V
C710	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C711	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C712	1-126-947-11	ELECT	47UF	20%	16V
C713	1-164-690-91	CERAMIC CHIP	0.0022UF	5%	50V
C715	1-126-964-11	ELECT	10UF	20%	50V
C717	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C720	1-126-935-11	ELECT	470UF	20%	16V
C721	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C722	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C723	1-164-182-11	CERAMIC CHIP	0.0033UF	10%	50V
C726	1-126-964-11	ELECT	10UF	20%	50V
C730	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C731	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
C732	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C733	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C734	1-164-690-91	CERAMIC CHIP	0.0022UF	5%	50V
C735	1-163-275-11	CERAMIC CHIP	0.001UF	5%	50V
C737	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C6003	1-117-227-11	MYLAR	1UF	10%	450V
C6005	1-126-961-11	ELECT	2.2UF	20%	50V
C6006	1-126-967-11	ELECT	47UF	20%	50V
C6007	1-163-009-91	CERAMIC CHIP	0.001UF	10%	50V
C6008	1-126-968-11	ELECT	100UF	20%	50V
C6009	1-126-947-11	ELECT	47UF	20%	25V
C6011	1-126-968-11	ELECT	100UF	20%	50V
C6012	1-107-824-11	CERAMIC	220PF	5%	1KV
C6014	1-135-945-21	FILM	10000PF	3%	800V
C6015	1-136-165-00	FILM	0.1UF	5%	50V
C6017	1-107-824-11	CERAMIC	220PF	5%	1KV
C6018	1-126-929-11	ELECT	4700UF	20%	10V
C6019	1-128-546-11	ELECT	10000UF	20%	10V
C6020	1-115-768-11	ELECT	0.0033F	20%	16V
C6021	1-163-037-11	CERAMIC CHIP	0.022UF	10%	50V
C6026	1-126-933-11	ELECT	100UF	20%	16V
C6027	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C6030	1-126-935-11	ELECT	470UF	20%	16V
C6033	1-126-935-11	ELECT	470UF	20%	16V
C6043	1-126-926-11	ELECT	1000UF	20%	10V
C6044	1-126-926-11	ELECT	1000UF	20%	10V
C6045	1-126-926-11	ELECT	1000UF	20%	10V
C6046	1-126-767-11	ELECT	1000UF	20%	16V
C6047	1-126-767-11	ELECT	1000UF	20%	16V
C6048	1-127-721-91	ELECT	1000PF	20%	16V
C6049	1-127-519-11	ELECT	100UF	20%	20V
C6057	1-126-916-11	ELECT	1000UF	20%	6.3V
C6061	1-126-960-11	ELECT	1UF	20%	50V
C6062	1-126-947-11	ELECT	47UF	20%	25V
C6063	1-136-479-11	FILM	0.001UF	2%	50V
C6064	1-126-964-11	ELECT	10UF	20%	50V
C7001	1-126-961-11	ELECT	2.2UF	20%	50V
C7006	1-115-857-11	ELECT	0.001UF	20%	16V
C7008	1-115-857-11	ELECT	0.001UF	20%	16V
C7010	1-126-963-11	ELECT	4.7UF	20%	50V
C7011	1-126-961-11	ELECT	2.2UF	20%	50V
C7012	1-136-479-11	FILM	0.001UF	2%	50V
C7013	1-136-287-11	FILM	0.0047UF	5%	50V
C7014	1-136-159-00	FILM	0.033UF	5%	50V
C7015	1-136-159-00	FILM	0.033UF	5%	50V
C7016	1-126-961-11	ELECT	2.2UF	20%	50V
C7017	1-126-963-11	ELECT	4.7UF	20%	50V
C7019	1-136-479-11	FILM	0.001UF	2%	50V
C7020	1-136-159-00	FILM	0.033UF	5%	50V
C7021	1-136-287-11	FILM	0.0047UF	5%	50V
C7022	1-136-159-00	FILM	0.033UF	5%	50V
C7028	1-136-165-00	FILM	0.1UF	5%	50V
C7029	1-163-009-91	CERAMIC CHIP	0.001UF	10%	50V
C7030	1-115-819-31	ELECT	0.0022F	20%	35V
C7040	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C7041	1-126-933-11	ELECT	100UF	20%	16V
C7042	1-126-961-11	ELECT	2.2UF	20%	50V
C7043	1-126-961-11	ELECT	2.2UF	20%	50V
C7044	1-126-960-11	ELECT	1UF	20%	50V
C7045	1-126-964-11	ELECT	10UF	20%	50V
C7046	1-126-935-11	ELECT	470UF	20%	16V
C7047	1-126-947-11	ELECT	47UF	20%	16V
C7048	1-126-947-11	ELECT	47UF	20%	16V
C7049	1-126-933-11	ELECT	100UF	20%	16V
C7050	1-126-933-11	ELECT	100UF	20%	16V
C7051	1-126-964-11	ELECT	10UF	20%	50V
C7052	1-126-964-11	ELECT	10UF	20%	50V
C7053	1-126-964-11	ELECT	10UF	20%	50V
C7054	1-126-964-11	ELECT	10UF	20%	50V
C7055	1-126-967-11	ELECT	47UF	20%	50V
C7056	1-115-819-31	ELECT	0.0022F	20%	35V
C7057	1-115-819-31	ELECT	0.0022F	20%	35V
C7058	1-126-960-11	ELECT	1UF	20%	50V
C7059	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C7061	1-136-169-00	FILM	0.22UF	5%	50V
C7062	1-163-009-91	CERAMIC CHIP	0.001UF	10%	50V
C7063	1-136-165-00	FILM	0.1UF	5%	50V
C7064	1-115-819-31	ELECT	0.0022F	20%	35V
C7066	1-136-165-00	FILM	0.1UF	5%	50V
C7067	1-136-165-00	FILM	0.1UF	5%	50V
C7074	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C7075	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C7076	1-115-832-51	ELECT	100UF	20%	50V
C7077	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C7078	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C7084	1-164-361-11	CERAMIC CHIP	0.047UF		25V
C7095	1-136-177-00	FILM	1UF	5%	50V
C7096	1-136-177-00	FILM	1UF	5%	50V
C7097	1-115-819-31	ELECT	0.0022F	20%	35V
C7098	1-115-819-31	ELECT	0.0022F	20%	35V
C7099	1-136-169-00	FILM	0.22UF	5%	50V

A1

REF. NO.	PART NO.	DESCRIPTION			REMARK
C7101	1-115-757-11	ELECT	330UF	20% 16V	
C7102	1-128-840-11	ELECT	47UF	20% 16V	
C7103	1-107-823-11	CERAMIC CHIP	0.47UF	10% 16V	
C7105	1-115-757-11	ELECT	330UF	20% 16V	
C7106	1-126-961-11	ELECT	2.2UF	20% 50V	
		<CONNECTOR>			
CN001 *	1-573-296-21	CONNECTOR, BOARD TO BOARD 10P			
CN003 *	1-793-922-11	CONNECTOR, DIN (RECEPTACLE)64P			
CN004	1-695-915-11	TAB (CONTACT)			
CN201 *	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P			
CN202 *	1-764-333-11	PLUG, CONNECTOR 10P			
CN203 *	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P			
CN204 *	1-564-506-11	PLUG, CONNECTOR 3P			
CN701 *	1-564-510-11	PLUG, CONNECTOR 7P			
CN702 *	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P			
CN703 *	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P			
CN705 *	1-564-506-11	PLUG, CONNECTOR 3P			
CN706 *	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P			
CN6005*	1-766-176-11	PIN, CONNECTOR (PC BOARD) 6P			
CN6006*	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P			
CN6011*	1-564-512-11	PLUG, CONNECTOR 9P			
CN7003*	1-564-511-11	PLUG, CONNECTOR 8P			
CN7006*	1-564-508-11	PLUG, CONNECTOR 5P			
CN7007*	1-564-511-11	PLUG, CONNECTOR 8P			
		<COMPOSITION CIRCUIT BLOCK>			
CP001	1-251-658-31	SPLITTER, RF			
		<DIODE>			
D203	8-719-025-31	DIODE 02CZ5.6-TE85L			
D211	8-719-911-19	DIODE 1SS119-25			
D212	8-719-404-50	DIODE MA111-TX			
D213	1-216-037-00	RES-CHIP	330	5% 1/10W	
D214	8-719-404-50	DIODE MA111-TX			
D215	8-719-404-50	DIODE MA111-TX			
D701	8-719-914-43	DIODE DAN202K			
D702	8-719-404-50	DIODE MA111-TX			
D703	8-719-914-43	DIODE DAN202K			
D704	8-719-914-43	DIODE DAN202K			
D705	8-719-404-50	DIODE MA111-TX			
D706	8-719-914-43	DIODE DAN202K			
D707	8-719-914-43	DIODE DAN202K			
D708	8-719-404-50	DIODE MA111-TX			
D709	8-719-911-19	DIODE 1SS119-25			
D710	8-719-914-43	DIODE DAN202K			
D711	8-719-914-44	DIODE DAP202K			
D715	8-719-914-43	DIODE DAN202K			
D716	8-719-914-44	DIODE DAP202K			
D717	8-719-404-50	DIODE MA111-TX			
D719	8-719-404-50	DIODE MA111-TX			
D720	8-719-404-50	DIODE MA111-TX			
D721	8-719-404-50	DIODE MA111-TX			
D723	8-719-404-50	DIODE MA111-TX			
D724	8-719-404-50	DIODE MA111-TX			
D725	8-719-404-50	DIODE MA111-TX			
D727	8-719-404-50	DIODE MA111-TX			
D6003	8-719-979-64	DIODE UF4005PKG23			
D6005	8-719-063-73	DIODE D1NL20U-TR			
D6009	8-719-063-73	DIODE D1NL20U-TR			
D6011	8-719-031-79	DIODE D5SC4M			
D6012	8-719-031-79	DIODE D5SC4M			
D6013	8-719-031-79	DIODE D5SC4M			
D6014	8-719-921-63	DIODE MTZJ—7.5B			
D6017	8-719-921-40	DIODE MTZJ-4.7C			
D6018	8-719-911-19	DIODE 1SS119-25			
D6019	8-719-404-50	DIODE MA111-TX			
D6025	1-216-295-91	SHORT	0		
D7002	8-719-911-19	DIODE 1SS119-25			
D7003	8-719-914-43	DIODE DAN202K			
D7004	8-719-914-44	DIODE DAP202K			
D7005	8-719-071-74	DIODE HZU11B1TRF			
D7011	8-719-404-50	DIODE MA111-TX			
D7012	8-719-404-50	DIODE MA111-TX			
D7013	8-719-041-97	DIODE MA113-(TX)			
D7014	8-719-041-97	DIODE MA113-(TX)			
D7021	8-719-911-19	DIODE 1SS119-25			
		<FERRITE BEAD>			
FB6003	1-412-911-11	FERRITE	0UH		
FB6005	1-412-911-11	FERRITE	0UH		
FB6007	1-412-911-11	FERRITE	0UH		
		<IC>			
IC201	8-752-100-25	IC CXA2150AQ			
IC701	6-801-891-01	IC M306V2ME-189FP			
IC702	8-759-349-11	IC PST9145NL			
IC706	8-759-671-96	IC MC74HC4066AFEL			
IC707	8-759-641-36	IC BR24C08			
IC6001	8-759-670-30	IC MCZ3001D			
IC6002	8-759-140-85	IC UPC1093J-T			
IC6003	8-759-520-49	IC PQ30RV21			
IC6004	8-759-479-70	IC S-81250SGY-Z			
IC6005	8-759-471-81	IC PQ05RD11			
IC6006	8-759-471-81	IC PQ05RD11			
IC6007	8-759-513-71	IC PQ05RF21			
IC6008	8-759-459-99	IC PQ09RD11			
IC6009	8-759-459-99	IC PQ09RD11			
IC6010	8-759-459-99	IC PQ09RD11			
IC7001	8-759-690-57	IC BH3868BFS-E2			
IC7003	8-759-145-27	IC UPC1406HA			
IC7004	8-759-576-76	IC TDA2822D013TR			
IC7005	8-759-246-70	IC TA8216H			
		<CHIP CONDUCTOR>			
JR6009	1-216-295-91	SHORT	0		
JR6010	1-216-295-91	SHORT	0		
JR6011	1-216-295-91	SHORT	0		

A1

REF. NO.	PART NO.	DESCRIPTION		REMARK
JR6012	1-216-295-91	SHORT	0	
		<COIL>		
L001	1-469-320-21	INDUCTOR	100UH	
L002	1-469-320-21	INDUCTOR	100UH	
L003	1-469-317-21	INDUCTOR	10UH	
L004	1-469-317-21	INDUCTOR	10UH	
L005	1-469-320-21	INDUCTOR	100UH	
L006	1-469-317-21	INDUCTOR	10UH	
L007	1-469-317-21	INDUCTOR	10UH	
L201	1-469-317-21	INDUCTOR	10UH	
L202	1-469-317-21	INDUCTOR	10UH	
L203	1-469-317-21	INDUCTOR	10UH	
L701	1-412-911-11	FERRITE	0UH	
L702	1-412-911-11	FERRITE	0UH	
L703	1-412-943-11	INDUCTOR	2.2UH	
L6001	1-406-665-11	INDUCTOR	100UH	
L6002	1-406-659-11	INDUCTOR	10UH	
L6003	1-406-659-11	INDUCTOR	10UH	
L6004	1-412-525-31	INDUCTOR	10UH	
L6006	1-412-519-11	INDUCTOR	3.3UH	
L6007	1-412-519-11	INDUCTOR	3.3UH	
L6008	1-469-317-21	INDUCTOR	10UH	
L7001	1-414-185-41	INDUCTOR	22UH	
		<PHOTO COUPLER>		
PH6001	8-749-010-64	PHOTO COUPLER	PC123FY2	
		<TRANSISTOR>		
Q005	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q012	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q015	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q203	8-729-122-63	TRANSISTOR	2SA1226	
Q204	8-729-122-63	TRANSISTOR	2SA1226	
Q207	8-729-122-63	TRANSISTOR	2SA1226	
Q208	8-729-122-63	TRANSISTOR	2SA1226	
Q209	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q210	8-729-216-22	TRANSISTOR	2SA1162-G	
Q211	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q212	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q215	8-729-216-22	TRANSISTOR	2SA1162-G	
Q216	8-729-216-22	TRANSISTOR	2SA1162-G	
Q217	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q701	8-729-216-22	TRANSISTOR	2SA1162-G	
Q702	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q703	8-729-027-38	TRANSISTOR	DTA144EKA-T146	
Q704	1-801-806-11	TRANSISTOR	DTC144EKA	
Q705	8-729-216-22	TRANSISTOR	2SA1162-G	
Q706	8-729-216-22	TRANSISTOR	2SA1162-G	
Q707	8-729-025-28	TRANSISTOR	2SK1828	
Q708	1-801-806-11	TRANSISTOR	DTC144EKA	
Q709	8-729-216-22	TRANSISTOR	2SA1162-G	
Q712	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q714	8-729-025-28	TRANSISTOR	2SK1828	
Q717	1-801-806-11	TRANSISTOR	DTC144EKA	
Q718	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q721	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q722	8-729-028-23	TRANSISTOR	2SJ344(TE85L)	
Q723	8-729-027-55	TRANSISTOR	DTC143EKA-T146	
Q724	8-729-027-55	TRANSISTOR	DTC143EKA-T146	
Q725	8-729-216-22	TRANSISTOR	2SA1162-G	
Q726	8-729-901-47	TRANSISTOR	DTA143EKA-T146	
Q727	8-729-901-47	TRANSISTOR	DTA143EKA-T146	
Q728	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q729	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q6006	1-801-806-11	TRANSISTOR	DTC144EKA	
Q6007	8-729-052-29	TRANSISTOR	2SK2876-01MR-F122	
Q6008	8-729-052-29	TRANSISTOR	2SK2876-01MR-F122	
Q7001	8-729-422-33	TRANSISTOR	2SD601A-Q-TX	
Q7007	8-729-422-35	TRANSISTOR	2SD601A-S-TX	
Q7008	8-729-422-35	TRANSISTOR	2SD601A-S-TX	
Q7010	8-729-421-19	TRANSISTOR	UN2213	
Q7015	8-729-421-19	TRANSISTOR	UN2213	
Q7016	8-729-900-53	TRANSISTOR	DTC114EKA	
Q7017	8-729-422-35	TRANSISTOR	2SD601A-S-TX	
Q7018	8-729-422-35	TRANSISTOR	2SD601A-S-TX	
		<RESISTOR>		
R006	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	
R007	1-216-017-91	RES-CHIP	47 5% 1/10W	
R008	1-216-073-91	RES-CHIP	10K 5% 1/10W	
R009	1-216-017-91	RES-CHIP	47 5% 1/10W	
R010	1-216-073-91	RES-CHIP	10K 5% 1/10W	
R013	1-216-083-00	RES-CHIP	27K 5% 1/10W	
R014	1-216-689-11	RES-CHIP	39K 5% 1/10W	
R015	1-216-049-11	RES-CHIP	1K 5% 1/10W	
R016	1-216-025-11	RES-CHIP	100 5% 1/10W	
R020	1-216-049-11	RES-CHIP	1K 5% 1/10W	
R022	1-216-073-91	RES-CHIP	10K 5% 1/10W	
R023	1-216-073-91	RES-CHIP	10K 5% 1/10W	
R037	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	
R039	1-216-025-11	RES-CHIP	100 5% 1/10W	
R042	1-216-025-11	RES-CHIP	100 5% 1/10W	
R049	1-216-049-11	RES-CHIP	1K 5% 1/10W	
R052	1-216-689-11	RES-CHIP	39K 5% 1/10W	
R055	1-216-083-00	RES-CHIP	27K 5% 1/10W	
R061	1-216-049-11	RES-CHIP	1K 5% 1/10W	
R065	1-216-025-11	RES-CHIP	100 5% 1/10W	
R073	1-216-049-11	RES-CHIP	1K 5% 1/10W	
R082	1-216-073-91	RES-CHIP	10K 5% 1/10W	
R083	1-216-073-91	RES-CHIP	10K 5% 1/10W	
R163	1-216-295-91	SHORT	0	
R164	1-216-295-91	SHORT	0	
R204	1-216-073-91	RES-CHIP	10K 5% 1/10W	
R205	1-216-025-11	RES-CHIP	100 5% 1/10W	
R206	1-216-752-11	METAL CHIP	56 0.5% 1/10W	
R207	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	
R208	1-216-295-91	SHORT	0	
R209	1-216-059-00	RES-CHIP	2.7K 5% 1/10W	
R210	1-216-025-11	RES-CHIP	100 5% 1/10W	

A1

REF. NO.	PART NO.	DESCRIPTION			REMARK
R211	1-216-752-11	METAL CHIP	56	0.5%	1/10W
R215	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R217	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R219	1-216-025-11	RES-CHIP	100	5%	1/10W
R220	1-216-752-11	METAL CHIP	56	0.5%	1/10W
R221	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R222	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R223	1-216-025-11	RES-CHIP	100	5%	1/10W
R224	1-216-025-11	RES-CHIP	100	5%	1/10W
R226	1-216-073-91	RES-CHIP	10K	5%	1/10W
R228	1-216-025-11	RES-CHIP	100	5%	1/10W
R229	1-216-025-11	RES-CHIP	100	5%	1/10W
R230	1-216-025-11	RES-CHIP	100	5%	1/10W
R231	1-216-025-11	RES-CHIP	100	5%	1/10W
R232	1-216-025-11	RES-CHIP	100	5%	1/10W
R233	1-216-025-11	RES-CHIP	100	5%	1/10W
R234	1-216-025-11	RES-CHIP	100	5%	1/10W
R235	1-216-025-11	RES-CHIP	100	5%	1/10W
R236	1-216-025-11	RES-CHIP	100	5%	1/10W
R237	1-216-025-11	RES-CHIP	100	5%	1/10W
R238	1-216-025-11	RES-CHIP	100	5%	1/10W
R239	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R240	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R241	1-216-133-91	RES-CHIP	3.3M	5%	1/10W
R242	1-216-075-00	RES-CHIP	12K	5%	1/10W
R243	1-216-073-91	RES-CHIP	10K	5%	1/10W
R244	1-216-025-11	RES-CHIP	100	5%	1/10W
R245	1-216-073-91	RES-CHIP	10K	5%	1/10W
R246	1-216-073-91	RES-CHIP	10K	5%	1/10W
R247	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R248	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R249	1-216-025-11	RES-CHIP	100	5%	1/10W
R250	1-216-097-11	RES-CHIP	100K	5%	1/10W
R251	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R252	1-216-025-11	RES-CHIP	100	5%	1/10W
R253	1-216-043-91	RES-CHIP	560	5%	1/10W
R255	1-216-025-11	RES-CHIP	100	5%	1/10W
R256	1-216-041-00	RES-CHIP	470	5%	1/10W
R257	1-216-017-91	RES-CHIP	47	5%	1/10W
R258	1-216-017-91	RES-CHIP	47	5%	1/10W
R259	1-216-017-91	RES-CHIP	47	5%	1/10W
R261	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R262	1-216-025-11	RES-CHIP	100	5%	1/10W
R263	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R264	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R265	1-216-073-91	RES-CHIP	10K	5%	1/10W
R266	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R267	1-216-073-91	RES-CHIP	10K	5%	1/10W
R268	1-216-295-91	SHORT	0		
R270	1-216-025-11	RES-CHIP	100	5%	1/10W
R271	1-216-025-11	RES-CHIP	100	5%	1/10W
R272	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R273	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R274	1-216-025-11	RES-CHIP	100	5%	1/10W
R275	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R276	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R277	1-208-789-11	METAL CHIP	2K	0.5%	1/10W
R278	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R279	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R280	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R281	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R282	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R283	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R284	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R285	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R286	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R287	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R288	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R289	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R290	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R292	1-216-025-11	RES-CHIP	100	5%	1/10W
R701	1-216-089-91	RES-CHIP	47K	5%	1/10W
R702	1-216-097-11	RES-CHIP	100K	5%	1/10W
R703	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R704	1-216-089-91	RES-CHIP	47K	5%	1/10W
R705	1-216-101-00	RES-CHIP	150K	5%	1/10W
R706	1-216-073-91	RES-CHIP	10K	5%	1/10W
R707	1-216-097-11	RES-CHIP	100K	5%	1/10W
R708	1-216-025-11	RES-CHIP	100	5%	1/10W
R709	1-216-097-11	RES-CHIP	100K	5%	1/10W
R710	1-216-073-91	RES-CHIP	10K	5%	1/10W
R711	1-216-073-91	RES-CHIP	10K	5%	1/10W
R712	1-216-049-11	RES-CHIP	1K	5%	1/10W
R713	1-216-025-11	RES-CHIP	100	5%	1/10W
R714	1-216-025-11	RES-CHIP	100	5%	1/10W
R716	1-216-049-11	RES-CHIP	1K	5%	1/10W
R717	1-216-107-00	RES-CHIP	270K	5%	1/10W
R718	1-216-049-11	RES-CHIP	1K	5%	1/10W
R719	1-216-049-11	RES-CHIP	1K	5%	1/10W
R720	1-216-049-11	RES-CHIP	1K	5%	1/10W
R721	1-216-049-11	RES-CHIP	1K	5%	1/10W
R723	1-216-049-11	RES-CHIP	1K	5%	1/10W
R725	1-216-049-11	RES-CHIP	1K	5%	1/10W
R727	1-216-049-11	RES-CHIP	1K	5%	1/10W
R728	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R729	1-216-049-11	RES-CHIP	1K	5%	1/10W
R732	1-216-025-11	RES-CHIP	100	5%	1/10W
R734	1-216-049-11	RES-CHIP	1K	5%	1/10W
R736	1-216-025-11	RES-CHIP	100	5%	1/10W
R737	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R738	1-216-049-11	RES-CHIP	1K	5%	1/10W
R739	1-216-049-11	RES-CHIP	1K	5%	1/10W
R740	1-216-073-91	RES-CHIP	10K	5%	1/10W
R741	1-216-073-91	RES-CHIP	10K	5%	1/10W
R742	1-216-041-00	RES-CHIP	470	5%	1/10W
R743	1-216-025-11	RES-CHIP	100	5%	1/10W
R744	1-216-049-11	RES-CHIP	1K	5%	1/10W
R745	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R748	1-216-081-00	RES-CHIP	22K	5%	1/10W
R749	1-216-049-11	RES-CHIP	1K	5%	1/10W
R751	1-216-025-11	RES-CHIP	100	5%	1/10W
R753	1-216-025-11	RES-CHIP	100	5%	1/10W
R754	1-216-025-11	RES-CHIP	100	5%	1/10W

A1

REF. NO.	PART NO.	DESCRIPTION			REMARK
R755	1-216-025-11	RES-CHIP	100	5%	1/10W
R756	1-216-025-11	RES-CHIP	100	5%	1/10W
R757	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R758	1-216-025-11	RES-CHIP	100	5%	1/10W
R759	1-216-097-11	RES-CHIP	100K	5%	1/10W
R760	1-216-049-11	RES-CHIP	1K	5%	1/10W
R761	1-216-025-11	RES-CHIP	100	5%	1/10W
R762	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R764	1-216-081-00	RES-CHIP	22K	5%	1/10W
R765	1-216-049-11	RES-CHIP	1K	5%	1/10W
R767	1-216-049-11	RES-CHIP	1K	5%	1/10W
R768	1-216-049-11	RES-CHIP	1K	5%	1/10W
R769	1-216-039-00	RES-CHIP	390	5%	1/10W
R770	1-216-049-11	RES-CHIP	1K	5%	1/10W
R771	1-216-049-11	RES-CHIP	1K	5%	1/10W
R772	1-216-081-00	RES-CHIP	22K	5%	1/10W
R773	1-216-081-00	RES-CHIP	22K	5%	1/10W
R774	1-216-295-91	SHORT	0		
R775	1-216-295-91	SHORT	0		
R776	1-216-049-11	RES-CHIP	1K	5%	1/10W
R777	1-216-073-91	RES-CHIP	10K	5%	1/10W
R779	1-216-025-11	RES-CHIP	100	5%	1/10W
R781	1-216-025-11	RES-CHIP	100	5%	1/10W
R782	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R783	1-216-025-11	RES-CHIP	100	5%	1/10W
R784	1-216-025-11	RES-CHIP	100	5%	1/10W
R785	1-216-049-11	RES-CHIP	1K	5%	1/10W
R788	1-216-295-91	SHORT	0		
R789	1-216-041-00	RES-CHIP	470	5%	1/10W
R790	1-216-025-11	RES-CHIP	100	5%	1/10W
R791	1-216-025-11	RES-CHIP	100	5%	1/10W
R792	1-216-053-91	RES-CHIP	1.5K	5%	1/10W
R793	1-216-053-91	RES-CHIP	1.5K	5%	1/10W
R794	1-216-017-91	RES-CHIP	47	5%	1/10W
R796	1-216-295-91	SHORT	0		
R797	1-216-017-91	RES-CHIP	47	5%	1/10W
R798	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R799	1-216-049-11	RES-CHIP	1K	5%	1/10W
R800	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R801	1-216-025-11	RES-CHIP	100	5%	1/10W
R802	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R803	1-216-017-91	RES-CHIP	47	5%	1/10W
R804	1-216-037-00	RES-CHIP	330	5%	1/10W
R805	1-216-037-00	RES-CHIP	330	5%	1/10W
R806	1-216-037-00	RES-CHIP	330	5%	1/10W
R807	1-216-017-91	RES-CHIP	47	5%	1/10W
R810	1-216-049-11	RES-CHIP	1K	5%	1/10W
R811	1-216-049-11	RES-CHIP	1K	5%	1/10W
R812	1-216-049-11	RES-CHIP	1K	5%	1/10W
R813	1-216-049-11	RES-CHIP	1K	5%	1/10W
R814	1-216-025-11	RES-CHIP	100	5%	1/10W
R815	1-216-025-11	RES-CHIP	100	5%	1/10W
R816	1-216-025-11	RES-CHIP	100	5%	1/10W
R817	1-216-025-11	RES-CHIP	100	5%	1/10W
R818	1-216-025-11	RES-CHIP	100	5%	1/10W
R819	1-216-045-00	RES-CHIP	680	5%	1/10W
R820	1-216-017-91	RES-CHIP	47	5%	1/10W
R821	1-216-017-91	RES-CHIP	47	5%	1/10W
R822	1-216-037-00	RES-CHIP	330	5%	1/10W
R823	1-216-073-91	RES-CHIP	10K	5%	1/10W
R824	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R825	1-216-089-91	RES-CHIP	47K	5%	1/10W
R826	1-216-025-11	RES-CHIP	100	5%	1/10W
R827	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R828	1-216-073-91	RES-CHIP	10K	5%	1/10W
R829	1-216-073-91	RES-CHIP	10K	5%	1/10W
R830	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R831	1-216-025-11	RES-CHIP	100	5%	1/10W
R832	1-216-017-91	RES-CHIP	47	5%	1/10W
R833	1-216-017-91	RES-CHIP	47	5%	1/10W
R834	1-216-041-00	RES-CHIP	470	5%	1/10W
R835	1-216-073-91	RES-CHIP	10K	5%	1/10W
R836	1-216-049-11	RES-CHIP	1K	5%	1/10W
R837	1-216-025-91	RES-CHIP	100	5%	1/10W
R838	1-216-049-11	RES-CHIP	1K	5%	1/10W
R839	1-216-025-91	RES-CHIP	100	5%	1/10W
R841	1-216-033-00	RES-CHIP	220	5%	1/10W
R843	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R846	1-216-089-91	RES-CHIP	47K	5%	1/10W
R852	1-216-049-11	RES-CHIP	1K	5%	1/10W
R853	1-216-033-00	RES-CHIP	220	5%	1/10W
R854	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R855	1-216-121-11	RES-CHIP	1M	5%	1/10W
R856	1-216-049-11	RES-CHIP	1K	5%	1/10W
R857	1-216-033-00	RES-CHIP	220	5%	1/10W
R858	1-216-033-00	RES-CHIP	220	5%	1/10W
R864	1-216-295-91	RES-CHIP	0	5%	1/10W
R865	1-216-295-91	RES-CHIP	0	5%	1/10W
R6002	1-249-393-11	CARBON	10	5%	1/4W
R6003	1-216-295-91	SHORT	0		
R6004	1-215-478-00	METAL	240K	1%	1/4W
R6006	1-217-418-61	FUSIBLE	0.47	10%	1/2W
R6007	1-215-478-00	METAL	240K	1%	1/4W
R6008	1-215-478-00	METAL	240K	1%	1/4W
R6009	1-215-479-00	METAL	270K	1%	1/4W
R6010	1-249-393-11	CARBON	10	5%	1/4W
R6011	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6012	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6015	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6019	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6020	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6021	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R6022	1-208-803-11	METAL CHIP	7.5K	0.5%	1/10W
R6025	1-249-418-11	CARBON	1.2K	5%	1/4W
R6029	1-216-105-91	RES-CHIP	220K	5%	1/10W
R6032	1-216-079-00	RES-CHIP	18K	5%	1/10W
R6034	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6035	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6036	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6037	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6038	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R6039	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R6040	1-208-840-11	METAL CHIP	270K	0.5%	1/10W
R6043	1-216-615-11	METAL CHIP	33	0.5%	1/10W

A1 B2

REF. NO.	PART NO.	DESCRIPTION			REMARK
R6044	1-249-393-11	CARBON	10	5%	1/4W
R6046	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6047	1-216-041-00	RES-CHIP	470	5%	1/10W
R6049	1-216-363-00	METAL OXIDE	0.33	5%	2W
R6050	1-216-363-00	METAL OXIDE	0.33	5%	2W
R6051	1-249-393-11	CARBON	10	5%	1/4W
R6052	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6055	1-216-295-91	SHORT	0		
R6056	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R6058	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R6059	1-249-417-11	CARBON	1K	5%	1/4W
R7001	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7002	1-216-097-11	RES-CHIP	100K	5%	1/10W
R7003	1-216-295-91	SHORT	0		
R7004	1-216-295-91	SHORT	0		
R7005	1-216-121-11	RES-CHIP	1M	5%	1/10W
R7006	1-216-089-91	RES-CHIP	47K	5%	1/10W
R7007	1-216-089-91	RES-CHIP	47K	5%	1/10W
R7008	1-216-079-00	RES-CHIP	18K	5%	1/10W
R7011	1-216-295-91	SHORT	0		
R7012	1-216-295-91	SHORT	0		
R7018	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R7019	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R7020	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7022	1-216-295-91	SHORT	0		
R7024	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7027	1-216-025-11	RES-CHIP	100	5%	1/10W
R7028	1-216-081-00	RES-CHIP	22K	5%	1/10W
R7029	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R7030	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7031	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7032	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R7033	1-216-025-11	RES-CHIP	100	5%	1/10W
R7034	1-216-295-91	SHORT	0		
R7035	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7036	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7037	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7038	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7039	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7040	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7042	1-216-025-11	RES-CHIP	100	5%	1/10W
R7043	1-216-025-11	RES-CHIP	100	5%	1/10W
R7044	1-216-073-91	RES-CHIP	10K	5%	1/10W
R7045	1-216-077-91	RES-CHIP	15K	5%	1/10W
R7046	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R7051	1-216-295-91	SHORT	0		
R7053	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7054	1-216-295-91	SHORT	0		
R7055	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R7056	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R7058	1-249-429-11	CARBON	10K	5%	1/4W
R7059	1-249-385-11	CARBON	2.2	5%	1/4W
R7060	1-249-385-11	CARBON	2.2	5%	1/4W
R7061	1-216-295-91	SHORT	0		
R7062	1-216-295-91	SHORT	0		
R7064	1-216-295-91	SHORT	0		

REF. NO.	PART NO.	DESCRIPTION			REMARK
R7067	1-216-295-91	SHORT	0		
R7068	1-216-295-91	SHORT	0		
R7070	1-216-295-91	SHORT	0		
R7071	1-216-121-11	RES-CHIP	1M	5%	1/10W
R7083	1-249-429-11	CARBON	10K	5%	1/4W
R7084	1-216-295-91	SHORT	0		
R7086	1-216-295-91	SHORT	0		
R7087	1-216-295-91	SHORT	0		
R7088	1-216-049-11	RES-CHIP	1K	5%	1/10W
R7095	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R7096	1-216-009-91	RES-CHIP	22	5%	1/10W
R7097	1-216-009-91	RES-CHIP	22	5%	1/10W
R7098	1-216-009-91	RES-CHIP	22	5%	1/10W
R7099	1-216-009-91	RES-CHIP	22	5%	1/10W
R7100	1-216-097-11	RES-CHIP	100K	5%	1/10W
R7101	1-216-113-00	RES-CHIP	470K	5%	1/10W
R7102	1-216-113-00	RES-CHIP	470K	5%	1/10W
R7103	1-249-429-11	CARBON	10K	5%	1/4W
		<TRANSFORMER>			
T6003	1-437-484-11	TRANSFORMER, CONVERTER (PIT)			
		<TUNER>			
TU001	8-598-475-10	TUNER, FSS BTF-WL411			
TU002	8-598-475-10	TUNER, FSS BTF-WL411			
		<CRYSTAL>			
X201	1-760-895-21	VIBRATOR, CERAMIC 2.7MHz			
X702	1-579-175-11	VIBRATOR, CERAMIC 10MHz			

****

* A-1300-481-A B2 BOARD, COMPLETE (ES34K9H)
* A-1300-482-A B2 BOARD, COMPLETE (ES38K9H)
****

4-034-937-01 SCREW (M3), TAPPING

<CAPACITOR>

C3001	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3002	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3003	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3004	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3005	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3006	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3007	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3008	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3009	1-164-227-11	CERAMIC CHIP	0.022UF	10%	25V
C3010	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3011	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C3012	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3013	1-104-601-11	ELECT CHIP	10UF	20%	10V
C3014	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V

B2

REF. NO.	PART NO.	DESCRIPTION			REMARK
C3015	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3016	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3017	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3018	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3019	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3020	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3021	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3022	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3023	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3024	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3025	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3026	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3027	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3028	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3030	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3031	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3032	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3033	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3034	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3035	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3036	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3037	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3039	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3040	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3041	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
C3043	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3044	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3045	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3046	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C3047	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3048	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3049	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3050	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3051	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3052	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3053	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3054	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3055	1-128-453-21	ELECT CHIP	47UF	20%	6.3V
C3056	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3057	1-126-603-11	ELECT CHIP	4.7UF	20%	35V
C3058	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3059	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3060	1-126-204-11	ELECT CHIP	47UF	20%	16V
C3062	1-126-204-11	ELECT CHIP	47UF	20%	16V
C3063	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3064	1-117-681-11	ELECT CHIP	100UF	20%	16V
C3065	1-117-681-11	ELECT CHIP	100UF	20%	16V
C3069	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3070	1-126-204-11	ELECT CHIP	47UF	20%	16V
C3071	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C3072	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3075	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C3076	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3078	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3079	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C3080	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C3081	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3083	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3084	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3085	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3086	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3087	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3088	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3089	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3090	1-126-392-11	ELECT CHIP	100UF	20%	6.3V
C3091	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C3092	1-162-925-11	CERAMIC CHIP	68PF	5%	50V
C3093	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3094	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3095	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3096	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3097	1-164-160-11	CERAMIC CHIP	20PF	5%	50V
C3098	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3099	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C3100	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3101	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
C3102	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3103	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3104	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3105	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3106	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3111	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3112	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3113	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3114	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3115	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3116	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3117	1-126-398-11	ELECT CHIP	4.7UF	20%	35V
C3120	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3123	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3124	1-128-453-21	ELECT CHIP	47UF	20%	6.3V
C3125	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3126	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
C3127	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3128	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C3129	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3130	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C3131	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3132	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3133	1-125-838-11	CERAMIC CHIP	2.2UF	10%	6.3V
C3134	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3135	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3136	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3137	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3138	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3139	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3140	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3144	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C3163	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3164	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3167	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3169	1-128-453-21	ELECT CHIP	47UF	20%	6.3V
C3170	1-164-315-11	CERAMIC CHIP	470PF	5%	50V

B2

REF. NO.	PART NO.	DESCRIPTION			REMARK
C3171	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3172	1-117-681-11	ELECT CHIP	100UF	20%	16V
C3173	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3174	1-126-204-11	ELECT CHIP	47UF	20%	16V
C3175	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3176	1-126-204-11	ELECT CHIP	47UF	20%	16V
C3177	1-126-204-11	ELECT CHIP	47UF	20%	16V
C3178	1-126-204-11	ELECT CHIP	47UF	20%	16V
C3179	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3180	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3181	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3182	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3183	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3184	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3203	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3204	1-126-193-11	ELECT CHIP	1UF	20%	50V
C3205	1-117-681-11	ELECT CHIP	100UF	20%	16V
C3206	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3208	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3209	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3210	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3211	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3212	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3213	1-117-681-11	ELECT CHIP	100UF	20%	16V
C3215	1-126-193-11	ELECT CHIP	1UF	20%	50V
C3216	1-126-193-11	ELECT CHIP	1UF	20%	50V
C3217	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3218	1-126-193-11	ELECT CHIP	1UF	20%	50V
C3219	1-126-193-11	ELECT CHIP	1UF	20%	50V
C3220	1-126-395-11	ELECT CHIP	22UF	20%	16V
C3221	1-117-681-11	ELECT CHIP	100UF	20%	16V
C3222	1-104-601-11	ELECT CHIP	10UF	20%	10V
C3223	1-104-601-11	ELECT CHIP	10UF	20%	10V
C3224	1-104-601-11	ELECT CHIP	10UF	20%	10V
C3225	1-104-601-11	ELECT CHIP	10UF	20%	10V
C3226	1-104-601-11	ELECT CHIP	10UF	20%	10V
C3227	1-104-601-11	ELECT CHIP	10UF	20%	10V
C3228	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3229	1-117-681-11	ELECT CHIP	100UF	20%	16V
C3231	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3232	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3233	1-104-601-11	ELECT CHIP	10UF	20%	10V
C3234	1-104-601-11	ELECT CHIP	10UF	20%	10V
C3235	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3236	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3237	1-117-681-11	ELECT CHIP	100UF	20%	16V
C3238	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3239	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3241	1-104-601-11	ELECT CHIP	10UF	20%	10V
C3242	1-104-601-11	ELECT CHIP	10UF	20%	10V
C3243	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3245	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3246	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3247	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3248	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3249	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3250	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V

REF. NO.	PART NO.	DESCRIPTION			REMARK
C3251	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3252	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3253	1-162-968-11	CERAMIC CHIP	0.0047UF	10%	50V
C3254	1-162-968-11	CERAMIC CHIP	0.0047UF	10%	50V
C3255	1-162-968-11	CERAMIC CHIP	0.0047UF	10%	50V
C3256	1-162-968-11	CERAMIC CHIP	0.0047UF	10%	50V
C3301	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3302	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3303	1-126-392-11	ELECT CHIP	100UF	20%	6.3V
C3304	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3305	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3306	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3307	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3308	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3309	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3310	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3311	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3312	1-126-392-11	ELECT CHIP	100UF	20%	6.3V
C3313	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3314	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3315	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3316	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3317	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3318	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3319	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3320	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3321	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3322	1-126-392-11	ELECT CHIP	100UF	20%	6.3V
C3323	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3324	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3325	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3326	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3327	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3328	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3331	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3332	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3333	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3335	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3336	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3338	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3339	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3340	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3341	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3343	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3344	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3345	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3346	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3347	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3348	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3349	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3350	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3351	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3352	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3353	1-126-392-11	ELECT CHIP	100UF	20%	6.3V
C3354	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3355	1-164-156-11	CERAMIC CHIP	0.1UF		25V

B2

REF. NO.	PART NO.	DESCRIPTION			REMARK
C3356	1-126-392-11	ELECT CHIP	100UF	20%	6.3V
C3357	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3358	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3359	1-126-392-11	ELECT CHIP	100UF	20%	6.3V
C3360	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3361	1-164-677-11	CERAMIC CHIP	0.033UF	10%	16V
C3362	1-126-398-11	ELECT CHIP	4.7UF	20%	35V
C3363	1-126-392-11	ELECT CHIP	100UF	20%	6.3V
C3364	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3365	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3366	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3367	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3368	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3369	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3370	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3371	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3372	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3374	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3375	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3376	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3377	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3378	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3379	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3386	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C3387	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3388	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3389	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3390	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3402	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3405	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3406	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3407	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3408	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3409	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3410	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3411	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3412	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3413	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3414	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3415	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3416	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3417	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3418	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3419	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3420	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3421	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3422	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3423	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3424	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3425	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
C3426	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3428	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3429	1-126-392-11	ELECT CHIP	100UF	20%	6.3V
C3430	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3431	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3432	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3433	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3434	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3435	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3436	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3437	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3438	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3439	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3440	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C3441	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C3442	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3443	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3444	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3445	1-126-396-11	ELECT CHIP	47UF	20%	16V
C3446	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3447	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3448	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3449	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C3450	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3451	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3452	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3453	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3455	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3456	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3457	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3458	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3460	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C3462	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3463	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3464	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3465	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3466	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3467	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3468	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3469	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3470	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3473	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3474	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3475	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3476	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3477	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3478	1-117-681-11	ELECT CHIP	100UF	20%	16V
C3479	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3480	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3481	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3482	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3483	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3484	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3485	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3486	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3487	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3488	1-126-394-11	ELECT CHIP	10UF	20%	16V
C3489	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3490	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3491	1-126-204-11	ELECT CHIP	47UF	20%	16V
C3492	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3493	1-126-204-11	ELECT CHIP	47UF	20%	16V
C3494	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3495	1-126-206-11	ELECT CHIP	100UF	20%	6.3V

B2

REF. NO.	PART NO.	DESCRIPTION			REMARK
C3496	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3498	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3501	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3502	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3503	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3504	1-216-864-11	SHORT	0		
		<CONNECTOR>			
CN3201*	A-1300-133-A	3D COMB FILTER MODULE (BC9 BOARD, COMPLETE)			
CN3202	1-573-299-21	CONNECTOR, BOARD TO BOARD 10P			
CN3203*	1-793-923-11	CONNECTOR, DIN (PLUG) 64P			
CN3204*	1-564-527-11	PLUG, CONNECTOR 12P			
CN3205*	1-793-922-11	CONNECTOR, DIN (RECEPTACLE)64P			
		<DIODE>			
D3089	8-719-800-76	DIODE 1SS226			
D3090	8-719-800-76	DIODE 1SS226			
D3094	8-719-025-34	DIODE 02CZ6.8-TE85L			
D3155	8-719-978-33	DIODE DTZ-TT11-6.8B			
D3156	8-719-978-33	DIODE DTZ-TT11-6.8B			
D3201	8-719-977-28	DIODE DTZ10B			
D3202	8-719-977-28	DIODE DTZ10B			
D3204	8-719-977-28	DIODE DTZ10B			
D3205	8-719-977-28	DIODE DTZ10B			
D3206	8-719-977-28	DIODE DTZ10B			
D3207	8-719-977-28	DIODE DTZ10B			
D3208	8-719-977-28	DIODE DTZ10B			
D3209	8-719-914-44	DIODE DAP202K			
D3210	8-719-041-97	DIODE MA113-(TX)			
D3211	8-719-404-50	DIODE MA111-TX			
D3212	8-719-977-28	DIODE DTZ10B			
D3213	8-719-977-28	DIODE DTZ10B			
D3214	8-719-977-28	DIODE DTZ10B			
D3215	8-719-404-50	DIODE MA111-TX			
D3301	8-719-158-02	DIODE RD3.9SB2			
D3309	8-719-914-43	DIODE DAN202K			
D3310	8-719-914-44	DIODE DAP202K			
D3401	8-719-914-43	DIODE DAN202K			
D3402	8-719-914-44	DIODE DAP202K			
		<FERRITE BEAD>			
FB3201	1-414-234-22	FERRITE	0UH		
FB3202	1-414-234-22	FERRITE	0UH		
FB3203	1-414-234-22	FERRITE	0UH		
FB3204	1-414-234-22	FERRITE	0UH		
FB3205	1-414-234-22	FERRITE	0UH		
FB3206	1-414-234-22	FERRITE	0UH		
FB3301	1-414-235-22	FERRITE	0UH		
FB3302	1-414-235-22	FERRITE	0UH		
FB3303	1-414-234-22	FERRITE	0UH		
FB3304	1-414-234-22	FERRITE	0UH		
FB3401	1-414-235-22	FERRITE	0UH		
FB3402	1-414-235-22	FERRITE	0UH		

REF. NO.	PART NO.	DESCRIPTION		REMARK
		<FILTER>		
FL3001	1-239-848-11	FILTER, LOW PASS		
FL3002	1-239-848-11	FILTER, LOW PASS		
FL3003	1-781-924-21	FILTER, LOW PASS (SMD)		
FL3004	1-239-848-11	FILTER, LOW PASS		
FL3401	1-781-923-21	FILTER, LOW PASS (SMD)		
		<IC>		
IC3001	8-752-093-84	IC CXA2151Q		
IC3002	8-759-595-97	IC SN74LV4053ANSR		
IC3003	8-752-394-69	IC CXD2073Q-T4		
IC3004	8-759-595-97	IC SN74LV4053ANSR		
IC3005	8-759-548-56	IC M52055FP		
IC3006	8-759-082-58	IC TC7W08FU(TE12R)		
IC3007	8-759-661-87	IC NJM2535V(TE2)		
IC3048	8-752-089-50	IC CXA2103Q		
IC3089	6-700-149-01	IC M24C04-MN6T(A)		
IC3090	6-801-476-01	IC MB94918RPF-G-146-BND		
IC3091	8-759-349-11	IC PST9145NL		
IC3109	8-752-395-13	IC CXD2085M-T4		
IC3110	8-752-089-50	IC CXA2103Q		
IC3161	8-752-390-35	IC CXD2057M-T6		
IC3201	8-752-080-04	IC CXA2069Q		
IC3202	8-759-351-01	IC TEA6422DT		
IC3203	8-759-331-71	IC NJM4558E(TE2)		
IC3204	8-759-450-93	IC NJM2521M-TE1		
IC3205	8-759-450-93	IC NJM2521M-TE1		
IC3301	8-759-836-37	IC MT48LC1M16A1TG-6S		
IC3302	8-749-015-18	IC PQ07VZ012ZP		
IC3303	8-752-410-57	IC CXD2097Q		
IC3304	8-759-447-90	IC TLC5733AIPM		
IC3305	8-759-669-75	IC TLC2932IPWR		
IC3306	8-759-669-78	IC TLC2933IPWR-12		
IC3402	6-700-088-01	IC MB81F643242C-10FN-D		
IC3403	8-759-460-29	IC PST9120NL		
IC3404	8-759-669-75	IC TLC2932IPWR		
IC3405	8-759-485-79	IC TC7SET08FU(TE85R)		
IC3406	8-759-485-79	IC TC7SET08FU(TE85R)		
IC3407	8-759-485-79	IC TC7SET08FU(TE85R)		
IC3408	8-759-672-57	IC CXD9509AQ		
IC3409	8-749-015-18	IC PQ07VZ012ZP		
IC3410	8-752-367-59	IC CXD2309Q		
IC3411	8-759-082-57	IC TC7W04FU(TE12R)		
IC3412	8-759-082-58	IC TC7W08FU(TE12R)		
IC3413	8-759-595-97	IC SN74LV4053ANSR		
IC3414	8-759-548-56	IC M52055FP		
IC3416	8-749-015-18	IC PQ07VZ012ZP		
		<COIL>		
L3002	1-469-555-21	INDUCTOR	10UH	
L3003	1-469-555-21	INDUCTOR	10UH	
L3004	1-469-555-21	INDUCTOR	10UH	
L3005	1-469-555-21	INDUCTOR	10UH	
L3049	1-469-555-21	INDUCTOR	10UH	
L3051	1-469-555-21	INDUCTOR	10UH	

B2

REF. NO.	PART NO.	DESCRIPTION	REMARK
L3089	1-414-233-22	FERRITE 0UH	
L3091	1-412-946-11	INDUCTOR 3.9UH	
L3110	1-469-555-21	INDUCTOR 10UH	
L3112	1-469-555-21	INDUCTOR 10UH	
L3113	1-469-555-21	INDUCTOR 10UH	
L3161	1-469-555-21	INDUCTOR 10UH	
L3301	1-412-058-11	INDUCTOR 10UH	
L3302	1-469-555-21	INDUCTOR 10UH	
L3303	1-412-052-21	INDUCTOR 1UH	
L3304	1-469-555-21	INDUCTOR 10UH	
L3305	1-469-555-21	INDUCTOR 10UH	
L3306	1-469-561-21	INDUCTOR 100UH	
L3307	1-469-555-21	INDUCTOR 10UH	
L3308	1-469-561-21	INDUCTOR 100UH	
L3309	1-469-561-21	INDUCTOR 100UH	
L3310	1-469-561-21	INDUCTOR 100UH	
L3311	1-469-561-21	INDUCTOR 100UH	
L3312	1-469-555-21	INDUCTOR 10UH	
L3401	1-412-052-21	INDUCTOR 1UH	
L3402	1-412-058-11	INDUCTOR 10UH	
L3403	1-469-561-21	INDUCTOR 100UH	
L3404	1-469-561-21	INDUCTOR 100UH	
L3405	1-469-555-21	INDUCTOR 10UH	
L3406	1-469-555-21	INDUCTOR 10UH	
L3407	1-469-555-21	INDUCTOR 10UH	
L3408	1-469-555-21	INDUCTOR 10UH	
L3409	1-469-555-21	INDUCTOR 10UH	
L3410	1-412-052-21	INDUCTOR 1UH	
L3411	1-412-058-11	INDUCTOR 10UH	
L3412	1-469-555-21	INDUCTOR 10UH	
L3413	1-469-555-21	INDUCTOR 10UH	
L3416	1-469-555-21	INDUCTOR 10UH	

<TRANSISTOR>

Q3001	8-729-905-35	TRANSISTOR	2SC4081-R
Q3002	8-729-905-35	TRANSISTOR	2SC4081-R
Q3003	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3005	8-729-905-35	TRANSISTOR	2SC4081-R
Q3006	8-729-905-35	TRANSISTOR	2SC4081-R
Q3007	8-729-905-35	TRANSISTOR	2SC4081-R
Q3008	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3009	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3010	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3011	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3014	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3015	8-729-905-35	TRANSISTOR	2SC4081-R
Q3016	8-729-905-35	TRANSISTOR	2SC4081-R
Q3017	8-729-905-35	TRANSISTOR	2SC4081-R
Q3021	8-729-905-35	TRANSISTOR	2SC4081-R
Q3022	8-729-905-35	TRANSISTOR	2SC4081-R
Q3023	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3024	8-729-905-35	TRANSISTOR	2SC4081-R
Q3025	8-729-905-35	TRANSISTOR	2SC4081-R
Q3026	8-729-905-35	TRANSISTOR	2SC4081-R
Q3027	8-729-905-35	TRANSISTOR	2SC4081-R
Q3028	8-729-905-35	TRANSISTOR	2SC4081-R
Q3029	8-729-905-35	TRANSISTOR	2SC4081-R
Q3030	8-729-905-35	TRANSISTOR	2SC4081-R
Q3049	8-729-905-35	TRANSISTOR	2SC4081-R
Q3051	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3053	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3054	8-729-905-35	TRANSISTOR	2SC4081-R
Q3056	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3058	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3089	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3090	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3091	1-801-806-11	TRANSISTOR	DTC144EKA
Q3101	8-729-905-35	TRANSISTOR	2SC4081-R
Q3102	8-729-905-35	TRANSISTOR	2SC4081-R
Q3103	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3109	8-729-905-35	TRANSISTOR	2SC4081-R
Q3110	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3111	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3112	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3119	8-729-905-35	TRANSISTOR	2SC4081-R
Q3161	8-729-905-35	TRANSISTOR	2SC4081-R
Q3201	8-729-905-35	TRANSISTOR	2SC4081-R
Q3202	8-729-905-35	TRANSISTOR	2SC4081-R
Q3203	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3204	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3205	8-729-905-35	TRANSISTOR	2SC4081-R
Q3206	8-729-905-35	TRANSISTOR	2SC4081-R
Q3207	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3208	8-729-905-35	TRANSISTOR	2SC4081-R
Q3209	8-729-905-35	TRANSISTOR	2SC4081-R
Q3210	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3211	1-801-806-11	TRANSISTOR	DTC144EKA
Q3212	8-729-905-35	TRANSISTOR	2SC4081-R
Q3213	8-729-905-35	TRANSISTOR	2SC4081-R
Q3214	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3301	8-729-905-35	TRANSISTOR	2SC4081-R
Q3302	8-729-905-35	TRANSISTOR	2SC4081-R
Q3303	8-729-905-35	TRANSISTOR	2SC4081-R
Q3304	8-729-905-35	TRANSISTOR	2SC4081-R
Q3305	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3306	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
Q3307	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
Q3401	8-729-905-35	TRANSISTOR	2SC4081-R
Q3402	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
Q3403	8-729-905-35	TRANSISTOR	2SC4081-R
Q3404	8-729-028-28	TRANSISTOR	2SK2036(TE85L)
Q3405	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3406	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3407	8-729-905-35	TRANSISTOR	2SC4081-R
Q3408	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3409	8-729-905-35	TRANSISTOR	2SC4081-R
Q3410	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3411	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3412	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3413	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3414	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q
Q3415	8-729-026-53	TRANSISTOR	2SA1576A-T106-Q

B2

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R3001	1-216-805-11	RES-CHIP	47	5%	1/10W
R3002	1-216-805-11	RES-CHIP	47	5%	1/10W
R3003	1-216-842-11	RES-CHIP	56K	5%	1/10W
R3004	1-216-818-11	RES-CHIP	560	5%	1/10W
R3005	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3006	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3007	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R3009	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R3010	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R3011	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3013	1-216-813-11	RES-CHIP	220	5%	1/10W
R3014	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R3016	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R3017	1-216-809-11	RES-CHIP	100	5%	1/10W
R3018	1-216-817-11	RES-CHIP	470	5%	1/10W
R3019	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R3020	1-216-809-11	RES-CHIP	100	5%	1/10W
R3021	1-216-809-11	RES-CHIP	100	5%	1/10W
R3022	1-216-809-11	RES-CHIP	100	5%	1/10W
R3023	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3024	1-216-809-11	RES-CHIP	100	5%	1/10W
R3025	1-216-809-11	RES-CHIP	100	5%	1/10W
R3026	1-216-035-00	RES-CHIP	270	5%	1/10W
R3027	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R3028	1-218-688-11	METAL CHIP	680	0.5%	1/16W
R3029	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R3030	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R3031	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R3032	1-216-817-11	RES-CHIP	470	5%	1/10W
R3033	1-216-817-11	RES-CHIP	470	5%	1/10W
R3034	1-216-817-11	RES-CHIP	470	5%	1/10W
R3035	1-216-809-11	RES-CHIP	100	5%	1/10W
R3036	1-216-809-11	RES-CHIP	100	5%	1/10W
R3037	1-216-809-11	RES-CHIP	100	5%	1/10W
R3038	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R3039	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R3040	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R3042	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3043	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3044	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3045	1-216-817-11	RES-CHIP	470	5%	1/10W
R3046	1-216-817-11	RES-CHIP	470	5%	1/10W
R3047	1-216-809-11	RES-CHIP	100	5%	1/10W
R3048	1-216-809-11	RES-CHIP	100	5%	1/10W
R3049	1-216-809-11	RES-CHIP	100	5%	1/10W
R3050	1-216-809-11	RES-CHIP	100	5%	1/10W
R3051	1-216-845-11	RES-CHIP	100K	5%	1/10W
R3052	1-216-845-11	RES-CHIP	100K	5%	1/10W
R3053	1-216-845-11	RES-CHIP	100K	5%	1/10W
R3056	1-216-817-11	RES-CHIP	470	5%	1/10W
R3057	1-216-817-11	RES-CHIP	470	5%	1/10W
R3058	1-216-835-11	RES-CHIP	15K	5%	1/10W
R3059	1-216-817-11	RES-CHIP	470	5%	1/10W
R3060	1-216-809-11	RES-CHIP	100	5%	1/10W
R3061	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R3062	1-218-697-11	METAL CHIP	1.6K	0.5%	1/16W
R3063	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3064	1-218-696-11	METAL CHIP	1.5K	0.5%	1/16W
R3065	1-216-813-11	RES-CHIP	220	5%	1/10W
R3066	1-216-809-11	RES-CHIP	100	5%	1/10W
R3067	1-216-845-11	RES-CHIP	100K	5%	1/10W
R3068	1-218-697-11	METAL CHIP	1.6K	0.5%	1/16W
R3069	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R3071	1-216-823-11	RES-CHIP	1.5K	5%	1/10W
R3072	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3073	1-216-805-11	RES-CHIP	47	5%	1/10W
R3074	1-216-805-11	RES-CHIP	47	5%	1/10W
R3075	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3076	1-216-817-11	RES-CHIP	470	5%	1/10W
R3077	1-216-809-11	RES-CHIP	100	5%	1/10W
R3078	1-216-832-11	RES-CHIP	8.2K	5%	1/10W
R3079	1-216-818-11	RES-CHIP	560	5%	1/10W
R3080	1-216-845-11	RES-CHIP	100K	5%	1/10W
R3081	1-216-809-11	RES-CHIP	100	5%	1/10W
R3082	1-216-845-11	RES-CHIP	100K	5%	1/10W
R3083	1-216-809-11	RES-CHIP	100	5%	1/10W
R3084	1-216-809-11	RES-CHIP	100	5%	1/10W
R3085	1-216-809-11	RES-CHIP	100	5%	1/10W
R3086	1-216-809-11	RES-CHIP	100	5%	1/10W
R3087	1-216-809-11	RES-CHIP	100	5%	1/10W
R3088	1-216-809-11	RES-CHIP	100	5%	1/10W
R3089	1-216-809-11	RES-CHIP	100	5%	1/10W
R3090	1-216-809-11	RES-CHIP	100	5%	1/10W
R3091	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3092	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3093	1-216-837-11	RES-CHIP	22K	5%	1/10W
R3094	1-216-837-11	RES-CHIP	22K	5%	1/10W
R3095	1-216-845-11	RES-CHIP	100K	5%	1/10W
R3096	1-216-817-11	RES-CHIP	470	5%	1/10W
R3097	1-216-845-11	RES-CHIP	100K	5%	1/10W
R3098	1-216-805-11	RES-CHIP	47	5%	1/10W
R3099	1-216-805-11	RES-CHIP	47	5%	1/10W
R3102	1-216-809-11	RES-CHIP	100	5%	1/10W
R3103	1-216-837-11	RES-CHIP	22K	5%	1/10W
R3104	1-216-809-11	RES-CHIP	100	5%	1/10W
R3105	1-216-809-11	RES-CHIP	100	5%	1/10W
R3107	1-216-809-11	RES-CHIP	100	5%	1/10W
R3108	1-216-817-11	RES-CHIP	470	5%	1/10W
R3109	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3110	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3111	1-216-839-11	RES-CHIP	33K	5%	1/10W
R3113	1-216-809-11	RES-CHIP	100	5%	1/10W
R3114	1-216-797-11	RES-CHIP	10	5%	1/10W
R3115	1-216-809-11	RES-CHIP	100	5%	1/10W
R3116	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R3117	1-216-817-11	RES-CHIP	470	5%	1/10W
R3118	1-216-809-11	RES-CHIP	100	5%	1/10W
R3119	1-216-805-11	RES-CHIP	47	5%	1/10W
R3120	1-216-805-11	RES-CHIP	47	5%	1/10W
R3121	1-218-697-11	METAL CHIP	1.6K	0.5%	1/16W
R3122	1-216-809-11	RES-CHIP	100	5%	1/10W
R3123	1-218-697-11	METAL CHIP	1.6K	0.5%	1/16W

B2

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3124	1-218-696-11	METAL CHIP	1.5K	0.5%	1/16W
R3125	1-216-823-11	RES-CHIP	1.5K	5%	1/10W
R3126	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3127	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R3128	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3129	1-216-835-11	RES-CHIP	15K	5%	1/10W
R3135	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3136	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3137	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3138	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3139	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3140	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3141	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3142	1-216-805-11	RES-CHIP	47	5%	1/10W
R3143	1-216-805-11	RES-CHIP	47	5%	1/10W
R3144	1-216-837-11	RES-CHIP	22K	5%	1/10W
R3145	1-216-837-11	RES-CHIP	22K	5%	1/10W
R3146	1-216-832-11	RES-CHIP	8.2K	5%	1/10W
R3147	1-216-837-11	RES-CHIP	22K	5%	1/10W
R3148	1-216-809-11	RES-CHIP	100	5%	1/10W
R3149	1-216-828-11	RES-CHIP	3.9K	5%	1/10W
R3150	1-216-819-11	RES-CHIP	680	5%	1/10W
R3151	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R3152	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R3153	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R3154	1-218-285-11	RES-CHIP	75	5%	1/10W
R3155	1-216-809-11	RES-CHIP	100	5%	1/10W
R3156	1-216-809-11	RES-CHIP	100	5%	1/10W
R3157	1-216-809-11	RES-CHIP	100	5%	1/10W
R3161	1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W
R3162	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R3164	1-216-864-11	SHORT	0		
R3165	1-216-809-11	RES-CHIP	100	5%	1/10W
R3166	1-216-817-11	RES-CHIP	470	5%	1/10W
R3167	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3168	1-414-229-11	FERRITE	0UH		
R3169	1-414-229-11	FERRITE	0UH		
R3170	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3171	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3172	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3173	1-216-295-91	SHORT	0		
R3176	1-218-285-11	RES-CHIP	75	5%	1/10W
R3177	1-218-285-11	RES-CHIP	75	5%	1/10W
R3178	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3180	1-216-864-11	SHORT	0		
R3181	1-216-864-11	SHORT	0		
R3182	1-216-864-11	SHORT	0		
R3183	1-216-809-11	RES-CHIP	100	5%	1/10W
R3184	1-216-809-11	RES-CHIP	100	5%	1/10W
R3185	1-216-809-11	RES-CHIP	100	5%	1/10W
R3186	1-216-817-11	RES-CHIP	470	5%	1/10W
R3187	1-216-817-11	RES-CHIP	470	5%	1/10W
R3188	1-216-817-11	RES-CHIP	470	5%	1/10W
R3189	1-218-285-11	RES-CHIP	75	5%	1/10W
R3190	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3191	1-218-694-11	METAL CHIP	1.2K	0.5%	1/16W
R3192	1-218-670-11	METAL CHIP	120	0.5%	1/16W
R3193	1-218-698-11	METAL CHIP	1.8K	0.5%	1/16W
R3194	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R3195	1-216-816-11	RES-CHIP	390	5%	1/10W
R3196	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3197	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3198	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3199	1-216-809-11	RES-CHIP	100	5%	1/10W
R3201	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3202	1-216-809-11	RES-CHIP	100	5%	1/10W
R3203	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3204	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3205	1-216-809-11	RES-CHIP	100	5%	1/10W
R3206	1-218-695-11	METAL CHIP	1.3K	0.5%	1/16W
R3207	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3208	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3209	1-216-809-11	RES-CHIP	100	5%	1/10W
R3210	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3211	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3212	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3213	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3214	1-218-695-11	METAL CHIP	1.3K	0.5%	1/16W
R3215	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3216	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3217	1-216-809-11	RES-CHIP	100	5%	1/10W
R3218	1-216-809-11	RES-CHIP	100	5%	1/10W
R3219	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3220	1-216-809-11	RES-CHIP	100	5%	1/10W
R3221	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3222	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3223	1-216-809-11	RES-CHIP	100	5%	1/10W
R3224	1-216-809-11	RES-CHIP	100	5%	1/10W
R3225	1-216-809-11	RES-CHIP	100	5%	1/10W
R3226	1-216-809-11	RES-CHIP	100	5%	1/10W
R3227	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3228	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3229	1-216-809-11	RES-CHIP	100	5%	1/10W
R3230	1-216-809-11	RES-CHIP	100	5%	1/10W
R3231	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3232	1-216-809-11	RES-CHIP	100	5%	1/10W
R3233	1-216-809-11	RES-CHIP	100	5%	1/10W
R3234	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3235	1-216-809-11	RES-CHIP	100	5%	1/10W
R3236	1-216-809-11	RES-CHIP	100	5%	1/10W
R3237	1-216-809-11	RES-CHIP	100	5%	1/10W
R3238	1-216-809-11	RES-CHIP	100	5%	1/10W
R3239	1-216-809-11	RES-CHIP	100	5%	1/10W
R3240	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3241	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3242	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3243	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3244	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3245	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3246	1-216-809-11	RES-CHIP	100	5%	1/10W
R3247	1-216-809-11	RES-CHIP	100	5%	1/10W
R3248	1-216-809-11	RES-CHIP	100	5%	1/10W
R3249	1-216-809-11	RES-CHIP	100	5%	1/10W

B2

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3250	1-216-809-11	RES-CHIP	100	5%	1/10W
R3251	1-216-864-11	SHORT	0		
R3252	1-216-809-11	RES-CHIP	100	5%	1/10W
R3253	1-216-809-11	RES-CHIP	100	5%	1/10W
R3254	1-216-809-11	RES-CHIP	100	5%	1/10W
R3255	1-216-809-11	RES-CHIP	100	5%	1/10W
R3258	1-218-285-11	RES-CHIP	75	5%	1/10W
R3259	1-216-853-11	RES-CHIP	470K	5%	1/10W
R3260	1-216-853-11	RES-CHIP	470K	5%	1/10W
R3261	1-216-827-11	RES-CHIP	3.3K	5%	1/10W
R3262	1-216-827-11	RES-CHIP	3.3K	5%	1/10W
R3263	1-216-864-11	SHORT	0		
R3264	1-216-864-11	SHORT	0		
R3265	1-216-857-11	RES-CHIP	1M	5%	1/10W
R3266	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3267	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3268	1-216-837-11	RES-CHIP	22K	5%	1/10W
R3269	1-216-809-11	RES-CHIP	100	5%	1/10W
R3270	1-216-864-11	SHORT	0		
R3271	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3272	1-216-841-11	RES-CHIP	47K	5%	1/10W
R3273	1-216-819-11	RES-CHIP	680	5%	1/10W
R3274	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3275	1-216-819-11	RES-CHIP	680	5%	1/10W
R3276	1-216-819-11	RES-CHIP	680	5%	1/10W
R3277	1-216-819-11	RES-CHIP	680	5%	1/10W
R3278	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3279	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3280	1-218-285-11	RES-CHIP	75	5%	1/10W
R3281	1-218-285-11	RES-CHIP	75	5%	1/10W
R3282	1-218-285-11	RES-CHIP	75	5%	1/10W
R3283	1-218-285-11	RES-CHIP	75	5%	1/10W
R3284	1-216-809-11	RES-CHIP	100	5%	1/10W
R3285	1-216-809-11	RES-CHIP	100	5%	1/10W
R3286	1-216-809-11	RES-CHIP	100	5%	1/10W
R3287	1-216-809-11	RES-CHIP	100	5%	1/10W
R3288	1-218-285-11	RES-CHIP	75	5%	1/10W
R3289	1-218-285-11	RES-CHIP	75	5%	1/10W
R3290	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3291	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R3292	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R3301	1-216-809-11	RES-CHIP	100	5%	1/10W
R3302	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R3303	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
R3304	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3305	1-216-809-11	RES-CHIP	100	5%	1/10W
R3306	1-216-809-11	RES-CHIP	100	5%	1/10W
R3307	1-216-811-11	RES-CHIP	150	5%	1/10W
R3308	1-216-819-11	RES-CHIP	680	5%	1/10W
R3309	1-218-662-11	METAL CHIP	56	0.5%	1/16W
R3310	1-218-662-11	METAL CHIP	56	0.5%	1/16W
R3311	1-218-662-11	METAL CHIP	56	0.5%	1/16W
R3312	1-218-662-11	METAL CHIP	56	0.5%	1/16W
R3313	1-216-835-11	RES-CHIP	15K	5%	1/10W
R3314	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R3315	1-216-835-11	RES-CHIP	15K	5%	1/10W
R3316	1-218-664-11	METAL CHIP	68	0.5%	1/16W
R3317	1-218-664-11	METAL CHIP	68	0.5%	1/16W
R3318	1-218-665-11	METAL CHIP	75	0.5%	1/16W
R3319	1-218-662-11	METAL CHIP	56	0.5%	1/16W
R3320	1-218-662-11	METAL CHIP	56	0.5%	1/16W
R3321	1-218-662-11	METAL CHIP	56	0.5%	1/16W
R3322	1-218-662-11	METAL CHIP	56	0.5%	1/16W
R3325	1-216-864-11	SHORT	0		
R3327	1-216-835-11	RES-CHIP	15K	5%	1/10W
R3328	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3329	1-216-815-11	RES-CHIP	330	5%	1/10W
R3330	1-216-815-11	RES-CHIP	330	5%	1/10W
R3331	1-216-841-11	RES-CHIP	47K	5%	1/10W
R3332	1-218-272-11	RES-CHIP	5.1K	5%	1/10W
R3333	1-216-809-11	RES-CHIP	100	5%	1/10W
R3334	1-216-809-11	RES-CHIP	100	5%	1/10W
R3335	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3337	1-216-820-11	RES-CHIP	820	5%	1/10W
R3338	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3339	1-216-855-11	RES-CHIP	680K	5%	1/10W
R3340	1-216-855-11	RES-CHIP	680K	5%	1/10W
R3341	1-216-813-11	RES-CHIP	220	5%	1/10W
R3342	1-216-865-11	RES-CHIP	3K	5%	1/10W
R3343	1-216-809-11	RES-CHIP	100	5%	1/10W
R3344	1-216-853-11	RES-CHIP	470K	5%	1/10W
R3345	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R3346	1-216-809-11	RES-CHIP	100	5%	1/10W
R3347	1-216-815-11	RES-CHIP	330	5%	1/10W
R3348	1-216-864-11	SHORT	0		
R3349	1-216-819-11	RES-CHIP	680	5%	1/10W
R3350	1-216-815-11	RES-CHIP	330	5%	1/10W
R3351	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3352	1-216-853-11	RES-CHIP	470K	5%	1/10W
R3353	1-216-837-11	RES-CHIP	22K	5%	1/10W
R3354	1-216-813-11	RES-CHIP	220	5%	1/10W
R3355	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3356	1-216-864-11	SHORT	0		
R3357	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R3358	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R3359	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R3360	1-216-827-11	RES-CHIP	3.3K	5%	1/10W
R3361	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3368	1-216-864-11	SHORT	0		
R3372	1-216-295-91	SHORT	0		
R3373	1-216-809-11	RES-CHIP	100	5%	1/10W
R3374	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3395	1-216-864-11	SHORT	0		
R3396	1-216-864-11	SHORT	0		
R3401	1-218-694-11	METAL CHIP	1.2K	0.5%	1/16W
R3402	1-218-712-11	METAL CHIP	6.8K	0.5%	1/16W
R3403	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3404	1-216-009-91	RES-CHIP	22	5%	1/10W
R3405	1-216-009-91	RES-CHIP	22	5%	1/10W
R3406	1-216-009-91	RES-CHIP	22	5%	1/10W
R3407	1-216-009-91	RES-CHIP	22	5%	1/10W
R3408	1-216-009-91	RES-CHIP	22	5%	1/10W
R3409	1-216-009-91	RES-CHIP	22	5%	1/10W
R3410	1-216-833-11	RES-CHIP	10K	5%	1/10W

B2

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3411	1-216-009-91	RES-CHIP	22	5%	1/10W
R3412	1-216-009-91	RES-CHIP	22	5%	1/10W
R3413	1-216-009-91	RES-CHIP	22	5%	1/10W
R3414	1-216-009-91	RES-CHIP	22	5%	1/10W
R3415	1-216-009-91	RES-CHIP	22	5%	1/10W
R3416	1-216-009-91	RES-CHIP	22	5%	1/10W
R3417	1-216-009-91	RES-CHIP	22	5%	1/10W
R3418	1-216-009-91	RES-CHIP	22	5%	1/10W
R3419	1-216-009-91	RES-CHIP	22	5%	1/10W
R3420	1-216-009-91	RES-CHIP	22	5%	1/10W
R3421	1-216-295-91	SHORT	0		
R3422	1-216-295-91	SHORT	0		
R3423	1-216-813-11	RES-CHIP	220	5%	1/10W
R3424	1-216-009-91	RES-CHIP	22	5%	1/10W
R3425	1-216-295-91	SHORT	0		
R3426	1-216-009-91	RES-CHIP	22	5%	1/10W
R3427	1-216-009-91	RES-CHIP	22	5%	1/10W
R3428	1-216-009-91	RES-CHIP	22	5%	1/10W
R3429	1-216-823-11	RES-CHIP	1.5K	5%	1/10W
R3430	1-216-009-91	RES-CHIP	22	5%	1/10W
R3431	1-216-009-91	RES-CHIP	22	5%	1/10W
R3432	1-216-815-11	RES-CHIP	330	5%	1/10W
R3433	1-216-009-91	RES-CHIP	22	5%	1/10W
R3434	1-216-809-11	RES-CHIP	100	5%	1/10W
R3435	1-216-009-91	RES-CHIP	22	5%	1/10W
R3436	1-216-009-91	RES-CHIP	22	5%	1/10W
R3437	1-216-009-91	RES-CHIP	22	5%	1/10W
R3438	1-216-009-91	RES-CHIP	22	5%	1/10W
R3439	1-216-009-91	RES-CHIP	22	5%	1/10W
R3440	1-216-009-91	RES-CHIP	22	5%	1/10W
R3441	1-216-009-91	RES-CHIP	22	5%	1/10W
R3442	1-216-009-91	RES-CHIP	22	5%	1/10W
R3443	1-216-009-91	RES-CHIP	22	5%	1/10W
R3444	1-216-009-91	RES-CHIP	22	5%	1/10W
R3445	1-216-864-11	SHORT	0		
R3446	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3447	1-216-819-11	RES-CHIP	680	5%	1/10W
R3448	1-216-855-11	RES-CHIP	680K	5%	1/10W
R3450	1-216-009-91	RES-CHIP	22	5%	1/10W
R3451	1-216-009-91	RES-CHIP	22	5%	1/10W
R3452	1-216-295-91	SHORT	0		
R3453	1-216-295-91	SHORT	0		
R3454	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3455	1-216-009-91	RES-CHIP	22	5%	1/10W
R3456	1-216-009-91	RES-CHIP	22	5%	1/10W
R3458	1-216-009-91	RES-CHIP	22	5%	1/10W
R3459	1-216-009-91	RES-CHIP	22	5%	1/10W
R3460	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3461	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3462	1-216-009-91	RES-CHIP	22	5%	1/10W
R3463	1-216-009-91	RES-CHIP	22	5%	1/10W
R3464	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3465	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3467	1-216-037-00	RES-CHIP	330	5%	1/10W
R3468	1-216-009-91	RES-CHIP	22	5%	1/10W
R3469	1-216-009-91	RES-CHIP	22	5%	1/10W
R3470	1-216-809-11	RES-CHIP	100	5%	1/10W
R3471	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3472	1-216-801-11	RES-CHIP	22	5%	1/10W
R3473	1-216-009-91	RES-CHIP	22	5%	1/10W
R3474	1-216-009-91	RES-CHIP	22	5%	1/10W
R3475	1-216-809-11	RES-CHIP	100	5%	1/10W
R3476	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3477	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R3478	1-216-037-00	RES-CHIP	330	5%	1/10W
R3479	1-216-009-91	RES-CHIP	22	5%	1/10W
R3480	1-216-009-91	RES-CHIP	22	5%	1/10W
R3481	1-216-009-91	RES-CHIP	22	5%	1/10W
R3482	1-216-009-91	RES-CHIP	22	5%	1/10W
R3483	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R3484	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3485	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3486	1-216-801-11	RES-CHIP	22	5%	1/10W
R3487	1-216-009-91	RES-CHIP	22	5%	1/10W
R3488	1-216-009-91	RES-CHIP	22	5%	1/10W
R3489	1-218-694-11	METAL CHIP	1.2K	0.5%	1/16W
R3490	1-216-864-11	SHORT	0		
R3491	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3492	1-216-037-00	RES-CHIP	330	5%	1/10W
R3493	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R3495	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3496	1-216-801-11	RES-CHIP	22	5%	1/10W
R3497	1-216-829-11	RES-CHIP	4.7K	5%	1/10W
R3498	1-216-818-11	RES-CHIP	560	5%	1/10W
R3499	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3500	1-216-864-11	SHORT	0		
R3503	1-216-864-11	SHORT	0		
R3506	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3507	1-216-864-11	SHORT	0		
R3509	1-216-864-11	SHORT	0		
R3510	1-216-864-11	SHORT	0		
R3511	1-216-809-11	RES-CHIP	100	5%	1/10W
R3512	1-216-809-11	RES-CHIP	100	5%	1/10W
R3513	1-216-809-11	RES-CHIP	100	5%	1/10W
R3520	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R3521	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R3522	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R3523	1-216-826-11	RES-CHIP	2.7K	5%	1/10W
R3524	1-216-826-11	RES-CHIP	2.7K	5%	1/10W
R3525	1-216-826-11	RES-CHIP	2.7K	5%	1/10W
R3526	1-216-809-11	RES-CHIP	100	5%	1/10W
R3528	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R3529	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R3530	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R3531	1-216-864-11	SHORT	0		
R3532	1-216-864-11	SHORT	0		
R3533	1-216-864-11	SHORT	0		
R3534	1-208-764-11	METAL CHIP	180	0.5%	1/10W
R3535	1-208-764-11	METAL CHIP	180	0.5%	1/10W
R3536	1-208-764-11	METAL CHIP	180	0.5%	1/10W
R3537	1-208-764-11	METAL CHIP	180	0.5%	1/10W
R3538	1-208-764-11	METAL CHIP	180	0.5%	1/10W
R3539	1-208-764-11	METAL CHIP	180	0.5%	1/10W

B2 C1

REF. NO.	PART NO.	DESCRIPTION			REMARK
R3540	1-208-754-11	METAL CHIP	68	0.5%	1/10W
R3541	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R3542	1-208-755-11	METAL CHIP	75	0.5%	1/10W
R3544	1-216-864-11	SHORT	0		
R3546	1-216-801-11	RES-CHIP	22	5%	1/10W
R3547	1-216-801-11	RES-CHIP	22	5%	1/10W
R3548	1-216-826-11	RES-CHIP	2.7K	5%	1/10W
R3549	1-218-675-11	METAL CHIP	200	0.5%	1/16W
R3550	1-218-675-11	METAL CHIP	200	0.5%	1/16W
R3551	1-216-809-11	RES-CHIP	100	5%	1/10W
R3552	1-218-675-11	METAL CHIP	200	0.5%	1/16W
R3553	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R3554	1-216-826-11	RES-CHIP	2.7K	5%	1/10W
R3555	1-218-644-11	METAL CHIP	10	0.5%	1/16W
R3556	1-218-648-11	METAL CHIP	15	0.5%	1/16W
R3557	1-216-809-11	RES-CHIP	100	5%	1/10W
R3558	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R3559	1-218-652-11	METAL CHIP	22	0.5%	1/16W
R3560	1-218-652-11	METAL CHIP	22	0.5%	1/16W
R3562	1-216-826-11	RES-CHIP	2.7K	5%	1/10W
R3563	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R3564	1-216-827-11	RES-CHIP	3.3K	5%	1/10W
R3565	1-216-809-11	RES-CHIP	100	5%	1/10W
R3569	1-218-695-11	METAL CHIP	1.3K	0.5%	1/16W
R3570	1-218-695-11	METAL CHIP	1.3K	0.5%	1/16W
R3571	1-218-695-11	METAL CHIP	1.3K	0.5%	1/16W
R3572	1-218-668-11	METAL CHIP	100	0.5%	1/16W
R3573	1-218-668-11	METAL CHIP	100	0.5%	1/16W
R3574	1-218-668-11	METAL CHIP	100	0.5%	1/16W
R3575	1-216-864-11	SHORT	0		
R3576	1-216-295-91	SHORT	0		
R3901	1-216-035-00	RES-CHIP	270	5%	1/10W
R3902	1-216-035-00	RES-CHIP	270	5%	1/10W
R3903	1-216-809-11	RES-CHIP	100	5%	1/10W
R3904	1-216-809-11	RES-CHIP	100	5%	1/10W
R3905	1-218-699-11	METAL CHIP	2K	0.5%	1/16W
R3906	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R3907	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R3908	1-216-825-11	RES-CHIP	2.2K	5%	1/10W
R3909	1-218-692-11	METAL CHIP	1K	0.5%	1/16W
R3910	1-218-700-11	METAL CHIP	2.2K	0.5%	1/16W
R3911	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3912	1-216-833-11	RES-CHIP	10K	5%	1/10W
R3913	1-216-827-11	RES-CHIP	3.3K	5%	1/10W
R3914	1-216-821-11	RES-CHIP	1K	5%	1/10W
R3915	1-218-644-11	METAL CHIP	10	0.5%	1/16W
R3916	1-218-644-11	METAL CHIP	10	0.5%	1/16W
R3917	1-218-644-11	METAL CHIP	10	0.5%	1/16W
R3919	1-216-295-91	SHORT	0		
R3921	1-218-285-11	RES-CHIP	75	5%	1/10W
R3922	1-218-285-11	RES-CHIP	75	5%	1/10W
R3923	1-218-285-11	RES-CHIP	75	5%	1/10W
R3925	1-216-861-11	RES-CHIP	2.2M	5%	1/10W
R3926	1-216-861-11	RES-CHIP	2.2M	5%	1/10W
R3927	1-216-861-11	RES-CHIP	2.2M	5%	1/10W
R3928	1-216-861-11	RES-CHIP	2.2M	5%	1/10W
R3933	1-216-864-11	SHORT	0		

REF. NO.	PART NO.	DESCRIPTION		REMARK
R3940	1-216-864-11	SHORT	0	
R3943	1-216-864-11	SHORT	0	
R3945	1-216-864-11	SHORT	0	
R3946	1-216-864-11	SHORT	0	
		<NETWORK RESISTOR>		
RB3401	1-233-575-11	RES, CHIP NETWORK 22		
RB3402	1-233-575-11	RES, CHIP NETWORK 22		
RB3403	1-233-575-11	RES, CHIP NETWORK 22		
RB3404	1-233-575-11	RES, CHIP NETWORK 22		
RB3405	1-233-575-11	RES, CHIP NETWORK 22		
RB3406	1-233-575-11	RES, CHIP NETWORK 22		
RB3407	1-233-575-11	RES, CHIP NETWORK 22		
RB3408	1-233-575-11	RES, CHIP NETWORK 22		
RB3409	1-233-575-11	RES, CHIP NETWORK 22		
RB3410	1-233-575-11	RES, CHIP NETWORK 22		
RB3411	1-233-575-11	RES, CHIP NETWORK 22		
RB3412	1-233-575-11	RES, CHIP NETWORK 22		
		<CRYSTAL>		
X3001	1-781-922-21	VIBRATOR, CERAMIC		
X3047	1-781-132-21	VIBRATOR, CRYSTAL 3.58MHz		
X3089	1-781-945-21	VIBRATOR, CERAMIC 20MHz		
X3109	1-767-989-11	VIBRATOR, CERAMIC 14.318MHz		
X3110	1-781-132-21	VIBRATOR, CRYSTAL 3.58MHz		
X3161	1-767-989-11	VIBRATOR, CERAMIC 14.318MHz		
X3401	1-781-535-21	VIBRATOR, CRYSTAL 17.26272MHz		
X3402	1-781-579-21	OSCILLATOR, CRYSTAL 74.175824MHz		

****

* A-1332-078-A C1 BOARD, COMPLETE
****

* 4-042-408-01 PIN, COATING LEAD
7-682-949-01 SCREW +PSW 3X10

<CAPACITOR>

C9001	1-126-940-11	ELECT	330UF	20%	25V
C9004	1-115-350-51	CERAMIC	0.0047UF	2KV	
C9009	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C9010	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C9011	1-161-830-00	CERAMIC	0.0047UF	500V	
C9012	1-161-830-00	CERAMIC	0.0047UF	500V	
C9013	1-163-035-00	CERAMIC CHIP	0.047UF		50V
C9014	1-161-830-00	CERAMIC	0.0047UF	500V	
C9015	1-163-104-00	CERAMIC CHIP	30PF	5%	50V
C9017 *	1-537-864-11	PIN, POST			
C9018	1-107-961-91	ELECT	10UF	20%	250V
C9019	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C9020	1-107-961-91	ELECT	10UF	20%	250V
C9021	1-107-961-91	ELECT	10UF	20%	250V
C9022	1-101-004-00	CERAMIC	0.01UF		50V

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

C1

REF. NO.	PART NO.	DESCRIPTION			REMARK
C9023	1-101-004-00	CERAMIC	0.01UF		50V
C9024	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C9025	1-104-653-11	ELECT	220UF	20%	16V
C9026	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C9027	1-101-004-00	CERAMIC	0.01UF		50V
C9031	1-162-116-00	CERAMIC	680PF	10%	2KV
C9032	1-162-116-00	CERAMIC	680PF	10%	2KV
C9033	1-107-662-11	ELECT	22UF	20%	250V
C9035	1-126-933-11	ELECT	100UF	20%	16V
C9036	1-126-964-11	ELECT	10UF	20%	50V
C9037	1-126-961-11	ELECT	2.2UF	20%	50V
C9038	1-126-963-11	ELECT	4.7UF	20%	50V
C9042	1-128-527-11	ELECT	330UF	20%	25V
C9044	1-126-934-11	ELECT	220UF	20%	16V
C9045	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C9046	1-126-933-11	ELECT	100UF	20%	16V
C9047	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C9048	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C9049	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C9050	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
		<CONNECTOR>			
CN9001*	1-764-333-11	PLUG, CONNECTOR 10P			
CN9002*	1-766-242-11	PIN, CONNECTOR (PC BOARD) 4P			
CN9003	1-695-915-11	TAB (CONTACT)			
CN9004	1-695-915-11	TAB (CONTACT)			
CN9007	1-695-915-11	TAB (CONTACT)			
CN9008	1-695-915-11	TAB (CONTACT)			
		<DIODE>			
D9001	8-719-911-19	DIODE 1SS119-25			
D9003	8-719-911-19	DIODE 1SS119-25			
D9005	8-719-404-50	DIODE MA111-TX			
D9006	8-719-051-85	DIODE HSS83TD			
D9007	8-719-051-85	DIODE HSS83TD			
D9008	8-719-051-85	DIODE HSS83TD			
D9009	8-719-908-03	DIODE GP08D			
D9010	8-719-110-17	DIODE RD10ES-T1B			
D9013	8-719-911-19	DIODE 1SS119-25			
D9014	8-719-911-19	DIODE 1SS119-25			
D9015	8-719-911-19	DIODE 1SS119-25			
D9016	8-719-911-19	DIODE 1SS119-25			
D9017	8-719-911-19	DIODE 1SS119-25			
		<IC>			
IC9001	8-759-680-01	IC TDA6120Q/N2/S1			
IC9002	8-759-680-01	IC TDA6120Q/N2/S1			
IC9003	8-759-680-01	IC TDA6120Q/N2/S1			
		<JACK>			
J9001 ⚠	1-451-470-21	SOCKET, CRT			

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<COIL>			
L9002	1-408-399-00	INDUCTOR	1.5UH		
L9003	1-408-592-11	INDUCTOR	1.2UH		
L9004	1-408-592-11	INDUCTOR	1.2UH		
L9005	1-406-666-21	INDUCTOR	150UH		
L9006	1-412-526-11	INDUCTOR	12UH		
		<NEON LAMP>			
NL9003	1-519-421-11	GAP, DISCHARGE			
		<TRANSISTOR>			
Q9001	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9002	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
Q9003	8-729-422-33	TRANSISTOR	2SD601A-Q-TX		
Q9004	8-729-422-33	TRANSISTOR	2SD601A-Q-TX		
Q9005	8-729-422-33	TRANSISTOR	2SD601A-Q-TX		
Q9007	8-729-141-73	TRANSISTOR	2SC3624A-T1L15LL16		
Q9008	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
Q9009	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9010	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9011	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9012	8-729-423-33	TRANSISTOR	2SC3311A-QRSTA		
Q9013	8-729-141-73	TRANSISTOR	2SC3624A-T1L15LL16		
Q9014	8-729-823-81	TRANSISTOR	2SC4632LS-CB7		
Q9015	8-729-141-73	TRANSISTOR	2SC3624A-T1L15LL16		
		<RESISTOR>			
R9001	1-216-633-11	METAL CHIP	180	0.5%	1/10W
R9004	1-249-428-11	CARBON	8.2K	5%	1/4W
R9005	1-249-421-11	CARBON	2.2K	5%	1/4W
R9006	1-249-429-11	CARBON	10K	5%	1/4W
R9007	1-216-652-11	METAL CHIP	1.1K	0.5%	1/10W
R9009	1-249-429-11	CARBON	10K	5%	1/4W
R9010	1-249-429-11	CARBON	10K	5%	1/4W
R9013	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9014	1-249-409-11	CARBON	220	5%	1/4W
R9015	1-249-409-11	CARBON	220	5%	1/4W
R9016	1-249-409-11	CARBON	220	5%	1/4W
R9018	1-216-633-11	METAL CHIP	180	0.5%	1/10W
R9019	1-216-633-11	METAL CHIP	180	0.5%	1/10W
R9020	1-216-025-11	RES-CHIP	100	5%	1/10W
R9021	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9022	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9023	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9025	1-216-025-11	RES-CHIP	100	5%	1/10W
R9026	1-216-652-11	METAL CHIP	1.1K	0.5%	1/10W
R9027	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9028	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9029	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9030	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9031	1-216-652-11	METAL CHIP	1.1K	0.5%	1/10W
R9032	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9033	1-215-435-00	METAL	3.9K	1%	1/4W
R9034	1-215-428-00	METAL	2K	1%	1/4W

C1 D

REF. NO.	PART NO.	DESCRIPTION			REMARK
R9035	1-216-103-00	RES-CHIP	180K	5%	1/10W
R9036	1-216-083-00	RES-CHIP	27K	5%	1/10W
R9037	1-215-926-00	METAL OXIDE	33K	5%	3W
R9039	1-216-025-11	RES-CHIP	100	5%	1/10W
R9041	1-216-083-00	RES-CHIP	27K	5%	1/10W
R9042	1-216-083-00	RES-CHIP	27K	5%	1/10W
R9043	1-215-926-00	METAL OXIDE	33K	5%	3W
R9044	1-215-926-00	METAL OXIDE	33K	5%	3W
R9047	1-202-557-00	SOLID	220	20%	1/2W
R9048	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9049	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9051	1-202-557-00	SOLID	220	20%	1/2W
R9052	1-202-557-00	SOLID	220	20%	1/2W
R9055	1-260-126-81	CARBON	180K	5%	1/2W
R9056	1-202-549-00	SOLID	100	20%	1/2W
R9057	1-202-847-00	SOLID	560K	20%	1/2W
R9059	1-202-818-00	SOLID	1K	20%	1/2W
R9061	1-202-549-00	SOLID	100	20%	1/2W
R9062	1-260-123-11	CARBON	100K	5%	1/2W
R9063	1-260-123-11	CARBON	100K	5%	1/2W
R9064	1-260-126-81	CARBON	180K	5%	1/2W
R9067	1-219-769-11	CARBON	3.3M	5%	1/2W
R9070	1-247-807-31	CARBON	100	5%	1/4W
R9071	1-247-807-31	CARBON	100	5%	1/4W
R9072	1-247-807-31	CARBON	100	5%	1/4W
R9073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R9076	1-219-769-11	CARBON	3.3M	5%	1/2W
R9077	1-249-417-11	CARBON	1K	5%	1/4W
R9078	1-249-427-11	CARBON	6.8K	5%	1/4W
R9079	1-249-426-11	CARBON	5.6K	5%	1/4W
R9081	1-247-843-11	CARBON	3.3K	5%	1/4W
R9083	1-249-436-11	CARBON	39K	5%	1/4W
R9084	1-260-126-81	CARBON	180K	5%	1/2W
R9085	1-260-126-81	CARBON	180K	5%	1/2W
R9089	1-215-442-00	METAL	7.5K	1%	1/4W
R9091	1-215-429-00	METAL	2.2K	1%	1/4W
R9092	1-216-295-91	SHORT	0		
R9094	1-216-295-91	SHORT	0		
R9095	1-216-295-91	SHORT	0		

<VARIABLE RESISTOR>

RV9001	1-241-714-11	RES, ADJ, METAL FILM 110M	
RV9002	1-241-788-11	RES, ADJ, CARBON 100K	

****

*	A-1300-332-A	D BOARD, COMPLETE	(ES34K9H)
*	A-1300-334-A	D BOARD, COMPLETE	(ES38K9H)

****

	3-710-578-01	COVER, VOLUME, 6 MOLD
*	4-042-408-01	PIN, COATING LEAD
	4-047-285-01	SHEET, INSULATING
	4-382-854-01	SCREW (M3X8), P, SW (+)
	4-382-854-11	SCREW (M3X10), P, SW (+)
	4-382-854-21	SCREW (M3X14), P, SW (+)
*	7-322-065-48	RUBBER, SILICONE RTV (KE-3490)

<CAPACITOR>

REF. NO.	PART NO.	DESCRIPTION			
C5001	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C5002	1-106-383-00	MYLAR	0.047UF	10%	200V
C5004	1-106-383-00	MYLAR	0.047UF	10%	200V
C5005	1-126-235-11	ELECT	100UF	20%	6.3V
C5006	1-126-964-11	ELECT	10UF	20%	50V
C5007	1-126-941-11	ELECT	470UF	20%	25V
C5008	1-128-527-11	ELECT	330UF	20%	25V
C5009	1-126-941-11	ELECT	470UF	20%	25V
C5010	1-163-037-11	CERAMIC CHIP	0.022UF	10%	50V
C5011	1-107-956-11	ELECT	220UF	20%	160V
C5012	1-163-017-00	CERAMIC CHIP	0.0047UF	10%	50V
C5013	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C5014	1-163-037-11	CERAMIC CHIP	0.022UF	10%	50V
C5015	1-107-884-11	ELECT	1000UF	20%	16V
C5016	1-130-783-00	MYLAR	0.33UF	10%	100V
C5017	1-115-185-11	CERAMIC CHIP	0.033UF	10%	50V
C5018	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C5019	1-107-910-11	ELECT	100UF	20%	50V
C5020	1-104-665-11	ELECT	100UF	20%	25V
C5021	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C5022	1-130-479-00	MYLAR	0.0047UF	5%	50V
C5023	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C5024	1-163-009-91	CERAMIC CHIP	0.001UF	10%	50V
C5025	1-130-471-00	MYLAR	0.001UF	5%	50V
C5026	1-107-655-11	ELECT	47UF	20%	250V
C5027	1-126-963-11	ELECT	4.7UF	20%	50V
C5028	1-126-963-11	ELECT	4.7UF	20%	50V
C5030	1-136-153-00	FILM	0.01UF	5%	50V
C5031	1-163-011-11	CERAMIC CHIP	0.0015UF	10%	50V
C5032	1-104-760-11	CERAMIC CHIP	0.047UF	10%	50V
C5033	1-136-165-00	FILM	0.1UF	5%	50V
C5034	1-162-114-00	CERAMIC	0.0047UF	2KV	
C5035	1-107-882-91	ELECT	100UF	20%	16V
C5036	1-126-941-11	ELECT	470UF	20%	25V
C5037	1-107-662-11	ELECT	22UF	20%	350V
C5038	1-107-888-11	ELECT	47UF	20%	25V
C5040	1-126-935-11	ELECT	470UF	20%	16V
C5041	1-126-935-11	ELECT	470UF	20%	16V
C5043	1-107-884-11	ELECT	1000UF	20%	16V
C5044	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C5045	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C5046	1-163-009-91	CERAMIC CHIP	0.001UF	10%	50V
C5047	1-163-009-91	CERAMIC CHIP	0.001UF	10%	50V
C5049	1-163-009-91	CERAMIC CHIP	0.001UF	10%	50V
C5050	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C5051	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5052	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5053	1-108-437-61	MYLAR	0.22UF	10%	200V
C5055	1-126-961-11	ELECT	2.2UF	20%	50V
C5056	1-162-318-11	CERAMIC	0.001UF	10%	500V
C5057	1-162-134-11	CERAMIC	470PF	10%	2KV
C5058	1-162-116-00	CERAMIC	680PF	10%	2KV

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

● NOTE
If replacing C6503 or C6590 with new one, be sure to replace both C6503 and C6590 with the same parts at the same time.

D

REF. NO.	PART NO.	DESCRIPTION			REMARK
C5059	1-162-116-00	CERAMIC	680PF	10%	2KV
C5060	1-137-417-11	MYLAR	0.0047UF	10%	200V
C5061	1-117-838-11	FILM	8200PF	3%	1.5KV (ES34K9H)
C5061	1-117-839-11	FILM	9100PF	3%	1.5KV (ES38K9H)
C5062	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C5063	1-117-839-11	FILM	9100PF	3%	1.5KV
C5064	1-115-520-11	FILM	0.68UF	5%	250V
C5065	1-107-506-11	FILM	0.68UF	5%	400V
C5066	1-109-921-11	CERAMIC	0.0015UF	10%	500V
C5069	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5070	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5071	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5072	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C5073	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C5075	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5076	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5077	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5079	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C5080	1-127-519-11	ELECT	100UF	20%	20V
C5102	1-107-888-11	ELECT	47UF	20%	25V
C5501	1-107-888-11	ELECT	47UF	20%	25V
C5502	1-126-941-11	ELECT	470UF	20%	25V
C5503	1-104-665-11	ELECT	100UF	20%	25V
C5504	1-126-947-11	ELECT	47UF	20%	16V
C5505	1-126-964-11	ELECT	10UF	20%	50V
C5506	1-126-963-11	ELECT	4.7UF	20%	50V
C5507	1-163-141-00	CERAMIC CHIP	0.001UF	5%	50V
C5508	1-163-031-91	CERAMIC CHIP	0.01UF		50V
C5509	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C5511	1-126-933-11	ELECT	100UF	20%	16V
C5514	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C5518	1-129-709-61	FILM	0.0039UF	5%	630V
C5519	1-104-760-11	CERAMIC CHIP	0.047UF	10%	50V
C5522	1-163-275-11	CERAMIC CHIP	0.001UF	5%	50V
C5531	1-136-165-00	FILM	0.1UF	5%	50V
C5533	1-130-475-00	MYLAR	0.0022UF	5%	50V
C5542	1-164-182-11	CERAMIC CHIP	0.0033UF	10%	50V
C5548	1-137-194-81	FILM	0.47UF	5%	50V
C5550	1-130-892-00	FILM	0.015UF	3%	100V
C5576	1-104-666-11	ELECT	220UF	20%	25V
C5577	1-104-666-11	ELECT	220UF	20%	25V
C5587	1-104-760-11	CERAMIC CHIP	0.047UF	10%	50V
C5588	1-136-153-00	FILM	0.01UF	5%	50V
C5590	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C5592	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5594	1-136-165-00	FILM	0.1UF	5%	50V
C5596	1-126-960-11	ELECT	1UF	20%	50V
C5598	1-126-947-11	ELECT	47UF	20%	16V
C5600	1-126-947-11	ELECT	47UF	20%	16V
C5601	1-136-165-00	FILM	0.1UF	5%	50V
C5602	1-126-947-11	ELECT	47UF	20%	16V
C5603	1-163-143-00	CERAMIC CHIP	0.0012UF	5%	50V
C5605	1-136-177-00	FILM	1UF	5%	50V
C5607	1-115-185-11	CERAMIC CHIP	0.033UF	10%	50V
C5609	1-104-665-11	ELECT	100UF	20%	25V
C5610	1-126-935-11	ELECT	470UF	20%	16V
C5611	1-163-038-91	CERAMIC CHIP	0.1UF		25V
C5612	1-126-964-11	ELECT	10UF	20%	50V
C5613	1-115-185-11	CERAMIC CHIP	0.033UF	10%	50V
C5614	1-126-964-11	ELECT	10UF	20%	50V
C5616	1-136-165-00	FILM	0.1UF	5%	50V
C5617	1-126-947-11	ELECT	47UF	20%	16V
C5618	1-136-171-00	FILM	0.33UF	5%	50V
C5619	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C5621	1-136-165-00	FILM	0.1UF	5%	50V
C5623	1-126-933-11	ELECT	100UF	20%	16V
C5625	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C5628	1-126-933-11	ELECT	100UF	20%	16V
● C6503	1-165-885-11	ELECT	1200UF	20%	250V
C6504	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C6507	1-107-909-11	ELECT	47UF	20%	50V
C6508	1-107-888-11	ELECT	47UF	20%	25V
C6510	1-136-165-00	FILM	0.1UF	5%	50V
C6511	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C6516	1-163-009-91	CERAMIC CHIP	0.001UF	10%	50V
C6517	1-107-905-11	ELECT	4.7UF	20%	50V
C6518	1-136-479-11	FILM	0.001UF	2%	50V
C6519	1-107-906-11	ELECT	10UF	20%	50V
C6525	1-164-143-11	CERAMIC	0.001UF	10%	1KV
C6526	1-164-143-11	CERAMIC	0.001UF	10%	1KV
C6532	1-135-998-21	FILM	56000PF	3%	800V
C6544	1-107-855-12	ELECT(BLOCK)	330UF		160V
C6545	1-126-943-11	ELECT	2200UF	20%	25V
C6546	1-128-548-11	ELECT	4700UF	20%	25V
C6547	1-113-610-11	ELECT(BLOCK)	220UF	20%	250V
C6548	1-128-549-11	ELECT	3300UF	20%	35V
C6551	1-163-037-11	CERAMIC CHIP	0.022UF	10%	50V
C6561	1-126-960-11	ELECT	1UF	20%	50V
C6584 ⚠	1-115-164-11	FILM	0.047UF	20%	275V
C6585 ⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C6586 ⚠	1-161-964-91	CERAMIC	0.0047UF	250V	
C6587 ⚠	1-161-964-91	CERAMIC	0.0047UF	250V	
C6588 ⚠	1-161-964-91	CERAMIC	0.0047UF	250V	
C6589 ⚠	1-161-964-91	CERAMIC	0.0047UF	250V	
● C6590	1-165-885-11	ELECT	1200UF	20%	250V
C6591 ⚠	1-119-886-51	CERAMIC	470PF	10%	250V
C6594	1-164-004-11	CERAMIC CHIP	0.1UF	10%	25V
C6595	1-104-665-11	ELECT	100UF	20%	25V
C6596	1-126-960-11	ELECT	1UF	20%	50V
C8002	1-136-169-00	FILM	0.22UF	5%	50V
C8004	1-104-665-11	ELECT	100UF	20%	10V
C8005	1-126-947-11	ELECT	47UF	20%	25V
C8006	1-126-960-11	ELECT	1UF	20%	50V
C8007	1-130-483-00	MYLAR	0.01UF	5%	50V
C8009	1-126-964-11	ELECT	10UF	20%	50V
C8011	1-126-961-11	ELECT	2.2UF	20%	50V
C8012	1-126-966-11	ELECT	33UF	20%	50V
C8013	1-126-964-11	ELECT	10UF	20%	50V
C8014	1-126-964-11	ELECT	10UF	20%	50V
C8015	1-126-966-11	ELECT	33UF	20%	50V
C8016	1-130-495-00	MYLAR	0.1UF	5%	50V
C8017	1-126-964-11	ELECT	10UF	20%	50V

D

REF. NO.	PART NO.	DESCRIPTION			REMARK
C8018	1-126-964-11	ELECT	10UF	20%	50V
C8019	1-104-665-11	ELECT	100UF	20%	10V
C8020	1-130-495-00	MYLAR	0.1UF	5%	50V
C8021	1-130-483-00	MYLAR	0.01UF	5%	50V
C8022	1-126-933-11	ELECT	100UF	20%	16V
C8023	1-113-611-11	ELECT(BLOCK)	820UF	20%	250V
C8024	1-126-967-11	ELECT	47UF	20%	50V
C8025	1-126-947-11	ELECT	47UF	20%	25V
C8027	1-130-495-00	MYLAR	0.1UF	5%	50V
C8028	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V
C8030	1-104-760-11	CERAMIC CHIP	0.047UF	10%	50V
C8031	1-128-551-11	ELECT	22UF	20%	25V
C8032	1-130-016-11	FILM	680PF	2%	50V
C8033	1-126-964-11	ELECT	10UF	20%	50V
C8035	1-125-969-91	CERAMIC	680PF	10%	1KV
C8036	1-125-969-91	CERAMIC	680PF	10%	1KV
C8037	1-135-946-21	FILM	47000PF	3%	800V
C8039	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C8040	1-126-969-11	ELECT	220UF	20%	50V
C8041	1-137-194-81	FILM	0.47UF	5%	50V
C8042	1-107-846-11	FILM	0.1UF	5%	250V
C8045	1-130-471-00	MYLAR	0.001UF	5%	50V
C8046	1-162-131-00	CERAMIC	220PF	10%	2KV
C8047	1-107-444-11	CERAMIC	100PF	10%	2KV
C8048	1-130-495-00	MYLAR	0.1UF	5%	50V
C8050	1-129-718-61	FILM	0.022UF	5%	630V
C8051	1-107-906-11	ELECT	10UF	20%	50V
C8052	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C8053	1-162-117-00	CERAMIC	100PF	10%	500V
C8054	1-102-244-00	CERAMIC	220PF	10%	500V
C8055	1-136-535-61	FILM	0.0018UF	5%	630V
C8056	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C8058	1-137-194-81	FILM	0.47UF	5%	50V
C8059	1-107-888-11	ELECT	47UF	20%	25V
C8060	1-107-960-11	ELECT	4.7UF	20%	160V
C8063	1-135-945-21	FILM	10000PF	3%	800V
C8065	1-115-340-11	CERAMIC CHIP	0.22UF	10%	25V

<CONNECTOR>

CN5002*	1-580-798-11	CONNECTOR PIN (DY) 6P	
CN5003*	1-766-242-11	PIN, CONNECTOR (PC BOARD) 4P	
CN5005*	1-764-333-11	PLUG, CONNECTOR 10P	
CN5501*	1-779-889-11	CONNECTOR, BOARD TO BOARD 8P	
CN5503*	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN5505*	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN5506	1-764-812-11	CONNECTOR, BOARD TO BOARD 11P	
CN5508*	1-564-506-11	PLUG, CONNECTOR 3P	
CN5509*	1-564-512-11	PLUG, CONNECTOR 9P	
CN5510*	1-564-506-11	PLUG, CONNECTOR 3P	
CN6501*	1-766-176-11	PIN, CONNECTOR (PC BOARD) 6P	
CN6502*	1-766-240-11	PIN, CONNECTOR (PC BOARD) 2P	
CN6503*	1-564-511-11	PLUG, CONNECTOR 8P	
CN6504*	1-779-889-11	CONNECTOR, BOARD TO BOARD 8P	
CN6505*	1-779-889-11	CONNECTOR, BOARD TO BOARD 8P	
CN6506*	1-779-889-11	CONNECTOR, BOARD TO BOARD 8P	

REF. NO.	PART NO.	DESCRIPTION		REMARK
		<DIODE>		
D5001	8-719-921-40	DIODE	MTZJ-4.7C	
D5002	8-719-908-03	DIODE	GP08D	
D5003	8-719-920-67	DIODE	ERC91-02	
D5004	8-719-158-49	DIODE	RD12SB2	
D5005	8-719-404-50	DIODE	MA111-TX	
D5006	8-719-109-72	DIODE	RD3.9ES-B2	
D5007	8-719-109-50	DIODE	RD2.0ES-B1	
D5008	8-719-404-50	DIODE	MA111-TX	
D5009	8-719-404-50	DIODE	MA111-TX	
D5010	8-719-404-50	DIODE	MA111-TX	
D5011	8-719-109-63	DIODE	RD3.0ESB2	
D5012	8-719-018-82	DIODE	RGP02-20EL-6394	
D5013	8-719-302-43	DIODE	EL1Z	
D5014	8-719-510-37	DIODE	D5LC20U	
D5015	8-719-302-43	DIODE	EL1Z	
D5016	8-719-920-67	DIODE	ERC91-02	
D5017	8-719-920-67	DIODE	ERC91-02	
D5018	8-719-110-41	DIODE	RD15ES-B2	
D5019	8-719-404-50	DIODE	MA111-TX	
D5021	8-719-404-50	DIODE	MA111-TX	
D5023	8-719-061-21	DIODE	FMQ-G5FMS	
D5024	8-719-510-02	DIODE	D1NS4	
D5025	8-719-510-02	DIODE	D1NS4	
D5026	8-719-404-50	DIODE	MA111-TX	
D5027	8-719-404-50	DIODE	MA111-TX	
D5028	8-719-404-50	DIODE	MA111-TX	
D5029	8-719-404-50	DIODE	MA111-TX	
D5031	8-719-977-28	DIODE	DTZ10B	
D5032	8-719-404-50	DIODE	MA111-TX	
D5501	8-719-404-50	DIODE	MA111-TX	
D5502	8-719-404-50	DIODE	MA111-TX	
D5503	8-719-404-50	DIODE	MA111-TX	
D5505	8-719-800-76	DIODE	1SS226	
D5506	8-719-404-50	DIODE	MA111-TX	
D5507	8-719-800-76	DIODE	1SS226	
D5513	8-719-911-19	DIODE	1SS119-25	
D5514	8-719-063-73	DIODE	D1NL20U-TR	
D5515	8-719-063-73	DIODE	D1NL20U-TR	
D5517	8-719-911-19	DIODE	1SS119-25	
D5522	8-719-923-78	DIODE	MTZJ-T-77-12	
D5523	8-719-923-78	DIODE	MTZJ-T-77-12	
D6501	8-719-404-50	DIODE	MA111-TX	
D6502	8-719-979-64	DIODE	UF4005PKG23	
D6507	1-216-295-91	SHORT	0	
D6508	8-719-982-26	DIODE	MTZJ-33B	
D6513	8-719-500-71	DIODE	D8LC40	
D6514	8-719-060-88	DIODE	D4SBS6	
D6515	8-719-060-90	DIODE	S2L60F	
D6516	8-719-060-88	DIODE	D4SBS6	
D6517	8-719-060-90	DIODE	S2L60F	
D6522	8-719-404-50	DIODE	MA111-TX	
D6530	8-719-022-99	DIODE	D6SB60L	
D6531	8-719-404-50	DIODE	MA111-TX	
D6532	8-719-948-45	DIODE	ERA22-08	
D6533	8-719-404-50	DIODE	MA111-TX	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

D

REF. NO.	PART NO.	DESCRIPTION	REMARK
D6537	8-719-404-50	DIODE MA111-TX	
D8002	8-719-404-50	DIODE MA111-TX	
D8003	8-719-404-50	DIODE MA111-TX	
D8004	8-719-109-85	DIODE RD5.1ESB2	
D8005	8-719-404-50	DIODE MA111-TX	
D8006	8-719-921-89	DIODE MTZJ-13C	
D8007	8-719-404-50	DIODE MA111-TX	
D8009	8-719-404-50	DIODE MA111-TX	
D8010	8-719-052-90	DIODE D1NL40-TA2	
D8013	8-719-063-73	DIODE D1NL20U-TR	
D8014	8-719-302-43	DIODE EL1Z	
D8016	8-719-948-45	DIODE ERA22-08	
D8017	8-719-948-45	DIODE ERA22-08	
D8018	8-719-948-45	DIODE ERA22-08	
D8019	8-719-110-41	DIODE RD15ES-B2	
D8020	8-719-404-50	DIODE MA111-TX	
D8021	8-719-404-50	DIODE MA111-TX	
D8022	8-719-404-50	DIODE MA111-TX	
D8023	8-719-404-50	DIODE MA111-TX	
D8025	8-719-982-26	DIODE MTZJ-33B	
D8026	8-719-404-50	DIODE MA111-TX	
D8027	8-719-081-97	DIODE MMDL914T1	
D8028	8-719-052-90	DIODE D1NL40-TA2	
D8029	8-719-911-19	DIODE 1SS119-25	
D8030	8-719-110-49	DIODE RD18ES-B2	
D8031	8-719-110-08	DIODE RD8.2ES-B2	
D8201	8-719-404-50	DIODE MA111-TX	
		<FERRITE BEAD>	
FB5001	1-410-397-21	FERRITE 1.1UH	
FB5002	1-543-298-11	FERRITE 0UH	
FB6501	1-410-396-41	FERRITE 0.45UH	
FB6502	1-412-473-51	INDUCTOR 0UH	
FB6504	1-410-397-21	FERRITE 1.1UH	
FB6505	1-412-911-11	FERRITE 0UH	
FB6506	1-412-911-11	FERRITE 0UH	
FB6508	1-412-473-51	INDUCTOR 0UH	
FB6509	1-412-473-51	INDUCTOR 0UH	
		<IC>	
IC5001	8-759-701-01	IC NJM2904M	
IC5002	8-759-700-07	IC NJM2903M	
IC5003	8-759-518-68	IC PQ12RF21	
IC5004	8-759-696-71	IC STV9379A	
IC5005	8-759-803-42	IC LA6500-FA	
IC5006	8-749-013-76	IC PQ6RD83B	
IC5007	8-759-981-61	IC NJM2901M	
IC5008	8-759-675-90	IC BA51W12ST-V5	
IC5501	8-759-640-40	IC BR24C04F-WE2	
IC5502	8-759-981-61	IC NJM2901M	
IC5504	8-759-803-42	IC LA6500-FA	
IC5506	8-759-803-42	IC LA6500-FA	
IC5510	8-759-803-42	IC LA6500-FA	
IC5511	8-752-074-64	IC CXA2026AS	
IC5512	8-759-929-65	IC LM7912CT	
IC5513	8-759-595-52	IC CXA8070AP	
IC5514	8-759-803-42	IC LA6500-FA	
IC5515	8-749-016-08	IC STK390-910	
IC6501	8-759-670-30	IC MCZ3001D	
IC6503	8-749-012-13	IC DM-58	
IC6505	8-749-921-86	IC SE-140N	
IC8001	8-759-981-61	IC NJM2901M	
IC8002	8-759-670-30	IC MCZ3001D	
IC8003	8-759-198-31	IC UPC1093J-1-T	
IC8004	8-759-701-01	IC NJM2904M	
		<CHIP CONDUCTOR>	
JR5006	1-216-295-91	SHORT 0	
JR5007	1-216-295-91	SHORT 0	
JR5021	1-216-295-91	SHORT 0	
JR8001	1-216-295-91	SHORT 0	
JR8002	1-216-295-91	SHORT 0	
JR8003	1-216-295-91	SHORT 0	
JR8004	1-216-295-91	SHORT 0	
JR8005	1-216-295-91	SHORT 0	
JR8006	1-216-295-91	SHORT 0	
JR8007	1-216-295-91	SHORT 0	
		<COIL>	
L5001	1-406-665-11	INDUCTOR 100UH	
L5002	1-406-663-21	INDUCTOR 47UH	
L5003	1-406-892-21	INDUCTOR 4MH	
L5004	1-412-525-31	INDUCTOR 10UH	
L5005	1-419-181-11	COIL, HORIZONTAL LINEARITY	
L5504	1-406-989-21	INDUCTOR 10MH	
L5505	1-406-989-21	INDUCTOR 10MH	
L5601	1-408-612-31	INDUCTOR 56UH	
L6503	1-412-525-31	INDUCTOR 10UH	
L6504	1-412-525-31	INDUCTOR 10UH	
L6505	1-406-665-11	INDUCTOR 100UH	
L8001	1-406-670-11	INDUCTOR 680UH	
L8002	1-419-658-11	INDUCTOR 107UH	
L8005	1-406-674-11	INDUCTOR 3.3MH	
		<PHOTO COUPLER>	
PH6501⚠	8-749-010-64	PHOTO COUPLER PC123FY2	
PH6502⚠	8-749-010-64	PHOTO COUPLER PC123FY2	
PH6503⚠	8-749-010-64	PHOTO COUPLER PC123FY2	
PH8001	8-749-010-64	PHOTO COUPLER PC123FY2	
		<IC LINK>	
PS6501⚠	1-576-390-91	LINK, IC	
PS6502⚠	1-576-390-91	LINK, IC	
PS6503	1-533-597-11	LINK, IC	
PS6504	1-533-597-11	LINK, IC	
		<TRANSISTOR>	
Q5001	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5002	8-729-216-22	TRANSISTOR 2SA1162-G	

D

REF. NO.	PART NO.	DESCRIPTION	REMARK
Q5003	8-729-015-28	TRANSISTOR IRFI9630GS	
Q5004	8-729-019-57	TRANSISTOR 2SA1208S-TP	
Q5005	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5006	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5007	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5008	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5011	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5012	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5013	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5014	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5015	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5016	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5017	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q5018	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5019	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5020	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5021	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5022	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5023	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5026	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5027	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5028	8-729-322-27	TRANSISTOR 2SK1572S	
Q5030	8-729-052-71	TRANSISTOR 2SC3997S-SONY-RA	
Q5031	8-729-053-24	TRANSISTOR 2SK3262-01MR	
Q5033	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5034	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5035	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5036	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5037	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5501	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5502	1-801-806-11	TRANSISTOR DTC144EKA	
Q5503	1-801-806-11	TRANSISTOR DTC144EKA	
Q5504	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5505	1-801-806-11	TRANSISTOR DTC144EKA	
Q5506	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5507	8-729-931-45	TRANSISTOR IRF614	
Q5508	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q5509	8-729-216-22	TRANSISTOR 2SA1162-G	
Q6503	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q6506	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
Q6507	8-729-052-32	TRANSISTOR IRFIB7N50A-LF31	
Q6520	8-729-019-57	TRANSISTOR 2SA1208S-TP	
Q6521	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q6522	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6524	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q6526	8-729-216-22	TRANSISTOR 2SA1162-G	
Q6527	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q6528	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q6529	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q6530	8-729-216-22	TRANSISTOR 2SA1162-G	
Q6531	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q6532	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q8001	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q8002	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q8003	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q8004	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q8007	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q8008	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q8009	8-729-200-17	TRANSISTOR 2SA1091O-TPE2	
Q8010	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q8013	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q8014	8-729-044-42	TRANSISTOR IRFI644G-LF36	
Q8015	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q8016	8-729-045-65	TRANSISTOR 2SA1776TV2Q	
Q8018	8-729-043-95	TRANSISTOR 2SC3840(3)	
Q8019	1-801-806-11	TRANSISTOR DTC144EKA	
Q8020	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	
Q8022	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8023	8-729-422-33	TRANSISTOR 2SD601A-Q-TX	

<RESISTOR>

R5001	1-216-001-00	RES-CHIP	10	5%	1/10W
R5002	1-216-033-00	RES-CHIP	220	5%	1/10W
R5003	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5004	1-216-099-00	RES-CHIP	120K	5%	1/10W
R5005	1-216-033-00	RES-CHIP	220	5%	1/10W
R5007	1-216-099-00	RES-CHIP	120K	5%	1/10W
R5008	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5009	1-216-099-00	RES-CHIP	120K	5%	1/10W
R5010	1-249-447-11	CARBON	1	5%	1/4W
R5011	1-216-099-00	RES-CHIP	120K	5%	1/10W
R5012	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R5013	1-216-393-00	METAL OXIDE	2.2	5%	3W
R5014	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R5016	1-218-754-11	METAL CHIP	120K	0.5%	1/10W
R5017	1-218-754-11	METAL CHIP	120K	0.5%	1/10W
R5018	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5019	1-249-429-11	CARBON	10K	5%	1/4W
R5020	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R5021	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R5022	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R5023	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5024	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5025	1-208-800-11	METAL CHIP	5.6K	0.5%	1/10W
R5026	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5027	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R5028	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R5029	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R5030	1-216-295-91	SHORT	0		
R5031	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R5032	1-249-381-11	CARBON	1	5%	1/4W
R5033	1-216-025-11	RES-CHIP	100	5%	1/10W
R5036	1-216-085-91	RES-CHIP	33K	5%	1/10W
R5037	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5038	1-216-075-00	RES-CHIP	12K	5%	1/10W
R5039	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5040	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5041	1-249-383-11	CARBON	1.5	5%	1/4W
R5042	1-216-081-00	METAL CHIP	22K	0.5%	1/10W
R5043	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R5044	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5045	1-216-073-91	RES-CHIP	10K	5%	1/10W

D

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5046	1-214-798-21	METAL	1.8	1%	1/2W
R5047	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5048	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R5049	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R5050	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R5051	1-208-796-11	METAL CHIP	560	0.5%	1/10W
R5052	1-214-796-00	METAL	1.5	1%	1/2W
R5053	1-215-890-11	METAL OXIDE	470	5%	2W
R5054	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5055	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5056	1-216-105-91	RES-CHIP	220K	5%	1/10W
R5057	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5058	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5059	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5063	1-208-813-11	METAL CHIP	20K	0.5%	1/10W
R5064	1-218-761-11	METAL CHIP	240K	0.5%	1/10W
R5065	1-218-761-11	METAL CHIP	240K	0.5%	1/10W
R5066	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R5067	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R5068	1-216-105-91	RES-CHIP	220K	5%	1/10W
R5069	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5070	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5071	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R5072	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R5073	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R5074	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R5075	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R5076	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R5077	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R5078	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R5079	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R5080	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5081	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R5082	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5083	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R5084	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5085	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5086	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5087	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5088	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5089	1-216-372-11	METAL OXIDE	1.8	5%	2W
R5090	1-216-372-11	METAL OXIDE	1.8	5%	2W
R5091	1-249-389-11	CARBON	4.7	5%	1/4W
R5092	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5093	1-208-807-11	METAL CHIP	11K	0.5%	1/10W
R5094	1-215-869-11	METAL OXIDE	1K	5%	1W
R5095	1-260-288-11	CARBON	0.47	5%	1/2W
R5096	1-249-443-11	CARBON	0.47	5%	1/4W
R5097	1-249-380-11	CARBON	0.82	5%	1/4W
R5098	1-249-379-11	CARBON	0.68	5%	1/4W
R5101	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R5102	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R5103	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R5104	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5105	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5106	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5107	1-249-401-11	CARBON	47	5%	1/4W
R5108	1-208-819-11	METAL CHIP	36K	0.5%	1/10W
R5109	1-208-808-11	METAL CHIP	12K	0.5%	1/10W
R5110	1-249-401-11	CARBON	47	5%	1/4W
R5111	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5112	1-216-033-00	RES-CHIP	220	5%	1/10W
R5113	1-249-425-11	CARBON	4.7K	5%	1/4W
R5114	1-249-425-11	CARBON	4.7K	5%	1/4W
R5115	1-249-417-11	CARBON	1K	5%	1/4W
R5116	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5117	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R5120	1-216-049-00	RES-CHIP	1K	5%	1/10W
R5121	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5122	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5123	1-216-295-91	SHORT	0		
R5124	1-216-295-91	SHORT	0		
R5125	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5126	1-216-025-11	RES-CHIP	100	5%	1/10W
R5127	1-215-890-11	METAL OXIDE	470	5%	2W
R5128	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5129	1-216-025-11	RES-CHIP	100	5%	1/10W
R5130	1-249-401-11	CARBON	47	5%	1/4W
R5131	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R5132	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R5133	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R5134	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R5135	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R5136	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R5137	1-216-481-11	METAL OXIDE	1.2K	5%	3W
R5138	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5139	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5140	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5141	1-215-915-11	METAL OXIDE	470	5%	3W
R5142	1-216-386-11	METAL OXIDE	0.56	5%	3W
R5143	1-216-385-11	METAL OXIDE	0.47	5%	3W
R5144	1-216-385-11	METAL OXIDE	0.47	5%	3W
R5145	1-215-880-00	METAL OXIDE	10	5%	2W
R5146	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5147	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
R5148	1-215-865-11	METAL OXIDE	220	5%	1W
R5149	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5150	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5151	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5152	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5153	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5154	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5155	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5156	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5157	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5158	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5159	1-216-025-11	RES-CHIP	100	5%	1/10W
R5160	1-216-025-11	RES-CHIP	100	5%	1/10W
R5161	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5163	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R5164	1-216-017-91	RES-CHIP	47	5%	1/10W
R5175	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5200	1-260-288-11	CARBON	0.47	5%	1/2W
R5501	1-216-033-00	RES-CHIP	220	5%	1/10W

D

REF. NO.	PART NO.	DESCRIPTION			REMARK
R5502	1-216-295-91	SHORT	0		
R5503	1-216-017-91	RES-CHIP	47	5%	1/10W
R5504	1-208-840-11	METAL CHIP	270K	0.5%	1/10W
R5505	1-208-840-11	METAL CHIP	270K	0.5%	1/10W
R5506	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5507	1-216-017-91	RES-CHIP	47	5%	1/10W
R5508	1-216-025-11	RES-CHIP	100	5%	1/10W
R5509	1-216-025-11	RES-CHIP	100	5%	1/10W
R5510	1-216-025-11	RES-CHIP	100	5%	1/10W
R5511	1-216-295-91	SHORT	0		
R5512	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5513	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5514	1-216-295-91	SHORT	0		
R5516	1-208-792-11	METAL CHIP	2.7K	0.5%	1/10W
R5518	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R5519	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R5520	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R5521	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5522	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5523	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R5525	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5526	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5527	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5528	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5529	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5530	1-216-025-11	RES-CHIP	100	5%	1/10W
R5531	1-216-001-00	RES-CHIP	10	5%	1/10W
R5532	1-216-001-00	RES-CHIP	10	5%	1/10W
R5535	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R5536	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R5544	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R5545	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R5547	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5548	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5554	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R5563	1-208-801-11	METAL CHIP	6.2K	0.5%	1/10W
R5564	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R5565	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R5573	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5576	1-249-395-11	CARBON	15	5%	1/4W
R5577	1-208-836-11	METAL CHIP	180K	0.5%	1/10W
R5578	1-208-812-11	METAL CHIP	18K	0.5%	1/10W
R5579	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5581	1-208-807-11	METAL CHIP	11K	0.5%	1/10W
R5585	1-208-846-11	METAL CHIP	470K	0.5%	1/10W
R5588	1-216-353-00	METAL OXIDE	2.2	5%	1W
R5599	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5615	1-249-395-11	CARBON	15	5%	1/4W
R5623	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5645	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5647	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R5648	1-216-385-11	METAL OXIDE	0.47	5%	3W
R5649	1-215-886-11	METAL OXIDE	100	5%	2W
R5650	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5657	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R5666	1-216-091-00	RES-CHIP	56K	5%	1/10W
R5669	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R5670	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R5672	1-216-109-00	RES-CHIP	330K	5%	1/10W
R5678	1-208-803-11	METAL CHIP	7.5K	0.5%	1/10W (ES34K9H)
R5678	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W (ES38K9H)
R5679	1-249-395-11	CARBON	15	5%	1/4W
R5680	1-249-383-11	CARBON	1.5	5%	1/4W
R5684	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R5685	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R5686	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R5688	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R5689	1-216-017-91	RES-CHIP	47	5%	1/10W
R5690	1-216-017-91	RES-CHIP	47	5%	1/10W
R5692	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R5693	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R5694	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R5696	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R5697	1-216-633-11	METAL CHIP	180	0.5%	1/10W
R5698	1-216-670-11	METAL CHIP	6.2K	0.5%	1/10W
R5699	1-216-081-00	RES-CHIP	22K	5%	1/10W
R5700	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R5702	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R5704	1-214-657-11	METAL	1	1%	1/4W
R5705	1-214-657-11	METAL	1	1%	1/4W
R5707	1-216-017-91	RES-CHIP	47	5%	1/10W
R5708	1-216-429-00	METAL OXIDE	270	5%	1W
R5709	1-216-017-91	RES-CHIP	47	5%	1/10W
R5710	1-216-429-00	METAL OXIDE	270	5%	1W
R5711	1-249-470-11	CARBON	0.47	5%	1/2W
R5712	1-249-470-11	CARBON	0.47	5%	1/2W
R5713	1-215-867-00	METAL OXIDE	470	5%	1W
R5714	1-216-097-00	RES-CHIP	100K	5%	1/10W
R5715	1-216-097-00	RES-CHIP	100K	5%	1/10W
R5716	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5717	1-216-093-91	RES-CHIP	68K	5%	1/10W
R6501	1-208-757-11	METAL CHIP	91	0.5%	1/10W
R6502	1-260-131-11	CARBON	470K	5%	1/2W
R6503	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R6504	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6505	1-240-917-11	RESISTOR	8.2M	5%	1W
R6506	1-249-377-11	CARBON	0.47	5%	1/4W
R6507	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6508	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6509	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6510	1-215-859-00	METAL OXIDE	22	5%	1W
R6511	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6512	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6513	1-215-481-00	METAL	330K	1%	1/4W
R6514	1-215-478-00	METAL	240K	1%	1/4W
R6515	1-260-131-11	CARBON	470K	5%	1/2W
R6516	1-202-962-11	CEMENTED	3.3	5%	10W
R6517	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W
R6518	1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R6520	1-215-867-00	METAL OXIDE	470	5%	1W
R6521	1-260-328-11	CARBON	1K	5%	1/2W
R6522	1-216-073-91	RES-CHIP	10K	5%	1/10W

D

REF. NO.	PART NO.	DESCRIPTION			REMARK
R6523	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6524	1-216-295-91	SHORT	0		
R6525	1-216-041-00	RES-CHIP	470	5%	1/10W
R6526	1-242-949-11	FUSIBLE	0.1	10%	1W
R6527	1-216-093-91	RES-CHIP	68K	5%	1/10W
R6528	1-216-025-11	RES-CHIP	100	5%	1/10W
R6529	1-249-393-11	CARBON	10	5%	1/4W
R6530	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6531	1-249-393-11	CARBON	10	5%	1/4W
R6532	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6533	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6534	1-216-085-91	RES-CHIP	33K	5%	1/10W
R6535	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6536	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6537	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6538	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6539	1-215-900-11	METAL OXIDE	22K	5%	2W
R6540	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6541	1-216-077-91	RES-CHIP	15K	5%	1/10W
R6542	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6543	1-218-764-11	METAL CHIP	330K	0.5%	1/10W
R6544	1-216-295-91	SHORT	0		
R6545	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R6546	1-215-478-00	METAL	240K	1%	1/4W
R6547	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R6552	1-216-081-00	RES-CHIP	22K	5%	1/10W
R6553	1-216-109-00	RES-CHIP	330K	5%	1/10W
R6556	1-243-660-71	METAL	0.05	5%	2W
R6557	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6583	1-216-077-91	RES-CHIP	15K	5%	1/10W
R6590	1-249-415-11	CARBON	680	5%	1/4W
R6591	1-216-341-11	METAL OXIDE	0.22	5%	1W
R6593	1-249-405-11	CARBON	100	5%	1/4W
R6596	1-215-445-00	METAL	10K	1%	1/4W
R6597	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6598	1-216-342-11	METAL OXIDE	0.27	5%	1W
R6599	1-249-417-11	CARBON	1K	5%	1/4W
R6600	1-215-445-00	METAL	10K	1%	1/4W
R6602	1-216-049-11	RES-CHIP	1K	5%	1/10W
R6603	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6604	1-216-073-91	RES-CHIP	10K	5%	1/10W
R6605	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R6612	1-216-089-91	RES-CHIP	47K	5%	1/10W
R6614	1-260-298-51	CARBON	3.3	5%	1/2W
R6646	1-215-481-00	METAL	330K	1%	1/4W
R8001	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8002	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8003	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8004	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8005	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8006	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8007	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8008	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8009	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8010	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8011	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8016	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R8018	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8019	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8020	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8021	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8022	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8023	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8024	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8025	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R8026	1-216-105-91	RES-CHIP	220K	5%	1/10W
R8027	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R8028	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R8029	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R8030	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R8031	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R8032	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8033	1-208-781-11	METAL CHIP	910	0.5%	1/10W
R8034	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8035	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R8036	1-215-444-00	METAL	9.1K	1%	1/4W
R8037	1-215-444-00	METAL	9.1K	1%	1/4W
R8038	1-215-444-00	METAL	9.1K	1%	1/4W
R8039	1-215-444-00	METAL	9.1K	1%	1/4W
R8040	1-215-444-00	METAL	9.1K	1%	1/4W
R8041	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R8042	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R8043	1-216-349-00	METAL OXIDE	1	5%	1W
R8044	1-208-837-11	METAL CHIP	200K	0.5%	1/10W
R8047	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8049	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R8050	1-216-615-11	METAL CHIP	33	0.5%	1/10W
R8051	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R8053	1-208-842-11	METAL CHIP	330K	0.5%	1/10W
R8054	1-208-842-11	METAL CHIP	330K	0.5%	1/10W
R8055	1-208-842-11	METAL CHIP	330K	0.5%	1/10W
R8056	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R8057	1-208-809-11	METAL CHIP	13K	0.5%	1/10W
R8058	1-249-393-11	CARBON	10	5%	1/4W
R8059	1-216-295-91	SHORT	0		
R8060	1-208-774-11	METAL CHIP	470	0.5%	1/10W
R8061	1-249-393-11	CARBON	10	5%	1/4W
R8062	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8063	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8065	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8066	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8068	1-216-295-91	SHORT	0		
R8069	1-249-419-11	CARBON	1.5K	5%	1/4W
R8070	1-243-979-71	METAL OXIDE	0.1	5%	2W
R8071	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8072	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R8073	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R8074	1-216-662-11	METAL CHIP	3K	0.5%	1/10W
R8077	1-218-760-11	METAL CHIP	220K	0.5%	1/10W
R8078	1-218-760-11	METAL CHIP	220K	0.5%	1/10W
R8080	1-249-431-11	CARBON	15K	5%	1/4W
R8081	1-249-443-11	CARBON	0.47	5%	1/4W
R8082	1-216-133-91	RES-CHIP	3.3M	5%	1/10W

D **DH**

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION			REMARK
R8085	1-219-749-91	CARBON	10K	5%	1/2W
R8086	1-219-751-91	CARBON	47K	5%	1/2W
R8087	1-216-295-91	SHORT	0		
R8089	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8091	1-215-485-00	METAL	470K	1%	1/4W
R8093	1-216-101-00	RES-CHIP	150K	5%	1/10W
R8095	1-215-485-00	METAL	470K	1%	1/4W
R8096	1-216-295-91	SHORT	0		
R8098	1-249-441-11	CARBON	100K	5%	1/4W
R8099	1-249-441-11	CARBON	100K	5%	1/4W
R8100	1-249-441-11	CARBON	100K	5%	1/4W
R8101	1-216-101-00	RES-CHIP	150K	5%	1/10W
R8102	1-216-081-00	RES-CHIP	22K	5%	1/10W
R8103	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R8104	1-216-089-91	RES-CHIP	47K	5%	1/10W
R8108	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8109	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8111	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8112	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8113	1-216-117-00	RES-CHIP	680K	5%	1/10W
R8114	1-215-922-11	METAL OXIDE	6.8K	5%	3W
R8115	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8116	1-216-486-11	METAL OXIDE	8.2K	5%	3W
R8117	1-216-097-11	RES-CHIP	100K	5%	1/10W
R8118	1-216-085-91	RES-CHIP	33K	5%	1/10W
R8119	1-216-486-00	METAL OXIDE	8.2K	5%	3W
R8123	1-216-025-11	RES-CHIP	100	5%	1/10W
R8124	1-216-073-91	RES-CHIP	10K	5%	1/10W
R8125	1-216-001-00	RES-CHIP	10	5%	1/10W
R8126	1-216-001-00	RES-CHIP	10	5%	1/10W
R8127	1-216-295-91	SHORT	0		
R8137	1-249-417-11	CARBON	1K	5%	1/4W
R8144	1-216-025-11	RES-CHIP	100	5%	1/10W
R8145	1-216-025-11	RES-CHIP	100	5%	1/10W
R8146	1-216-049-11	RES-CHIP	1K	5%	1/10W
R8147	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R8148	1-208-826-11	METAL CHIP	68K	0.5%	1/10W
R8149	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8150	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8151	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8152	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8201	1-249-389-11	CARBON	4.7	5%	1/4W

<VARIABLE RESISTOR>

⧓ RV8001⚠	1-225-630-91	RES, ADJ, CERMET	20K	
⧓ RV8002⚠	1-225-627-91	RES, ADJ, CERMET	2K	

<RELAY>

RY6501⚠	1-755-395-11	RELAY (AC POWER)	
RY6502⚠	1-755-214-11	RELAY, AC POWER	

<SPARK GAP>

SG8002	1-517-499-21	GAP, SPARK	

REF. NO.	PART NO.	DESCRIPTION	REMARK

<TRANSFORMER>

T5001 ⚠	1-435-621-11	TRANSFORMER, HORIZONTAL OUTPUT		
T5002 ⚠	1-435-636-11	TRANSFORMER, HORIZONTAL DRIVE		
T6501 ⚠	1-435-576-21	TRANSFORMER, CONVERTER (PIT)		
T8001 ⚠	1-453-351-21	FBT ASSY NX-6000//M3J4	(ES38K9H)	
T8001 ⚠	1-453-380-12	FBT ASSY NX-6000//M3B4	(ES34K9H)	
T8002	1-433-934-11	TRANSFORMER, FERRITE (DFT)		

<THERMISTOR>

TH5001	1-800-193-00	THERMISTOR	
TH5002	1-807-796-11	THERMISTOR	

****

* A-1400-663-A DH BOARD, COMPLETE
****

*	4-042-408-01	PIN, COATING LEAD	
	4-382-854-11	SCREW (M3X10), P, SW (+)	

<CAPACITOR>

C5801	1-126-967-11	ELECT	47UF	20%	50V
C5803	1-126-967-11	ELECT	47UF	20%	50V
C5804	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5805	1-126-964-11	ELECT	10UF	20%	50V
C5806	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5807	1-126-947-11	ELECT	47UF	20%	16V
C5809	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5810	1-126-964-11	ELECT	10UF	20%	50V
C5811	1-136-165-00	FILM	0.1UF	5%	50V
C5818	1-126-947-11	ELECT	47UF	20%	16V
C5819	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5822	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5825	1-126-947-11	ELECT	47UF	20%	25V
C5827	1-126-947-11	ELECT	47UF	20%	25V
C5829	1-136-165-00	FILM	0.1UF	5%	50V
C5845	1-104-665-11	ELECT	100UF	20%	25V
C5846	1-126-935-11	ELECT	470UF	20%	16V
C5848	1-104-665-11	ELECT	100UF	20%	25V
C5849	1-126-935-11	ELECT	470UF	20%	16V
C5851	1-126-960-11	ELECT	1UF	20%	50V
C5852	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
C5853	1-163-021-91	CERAMIC CHIP	0.01UF	10%	50V
C5854	1-104-760-11	CERAMIC CHIP	0.047UF	10%	50V
C5855	1-126-964-11	ELECT	10UF	20%	50V
C5856	1-126-964-11	ELECT	10UF	20%	50V
C5859	1-126-964-11	ELECT	10UF	20%	50V

<CONNECTOR>

CN5803 *	1-764-333-11	PLUG, CONNECTOR 10P	
CN5804 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN5805 *	1-564-506-11	PLUG, CONNECTOR 3P	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

DH F1

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<DIODE>			
D5801	8-719-404-50	DIODE MA111-TX			
D5802	8-719-404-50	DIODE MA111-TX			
D5805	8-719-976-99	DIODE UDZ5.1B			
		<IC>			
IC5802	8-752-072-94	IC CXA1875AM-T4			
IC5803	8-759-701-01	IC NJM2904M(TE2)			
IC5806	8-759-671-97	IC MC74HC4316AFEL			
IC5808	8-759-251-31	IC CA0007AM			
IC5809	8-759-803-42	IC LA6500-FA			
IC5810	8-759-701-01	IC NJM2904M(TE2)			
IC5813	8-759-458-79	IC PQ12RD11			
IC5813	8-759-513-72	IC PQ12RF11			
IC5814	8-759-929-65	IC NJM79M12FA			
IC5815	8-759-251-31	IC CA0007AM			
IC5817	8-752-074-64	IC CXA2026AS			
		<CHIP CONDUCTOR>			
JR5803	1-216-295-91	SHORT	0		
		<TRANSISTOR>			
Q5806	1-801-806-11	TRANSISTOR DTC144EKA			
Q5807	1-801-806-11	TRANSISTOR DTC144EKA			
Q5808	8-729-422-33	TRANSISTOR 2SD601A-Q-TX			
Q5809	1-801-806-11	TRANSISTOR DTC144EKA			
		<RESISTOR>			
R5801	1-216-113-00	RES-CHIP	470K	5%	1/10W
R5802	1-216-109-00	RES-CHIP	330K	5%	1/10W
R5805	1-218-776-11	METAL CHIP	1M	0.5%	1/10W
R5806	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R5807	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5815	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5817	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5818	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R5819	1-216-641-11	METAL CHIP	390	0.5%	1/10W
R5821	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R5822	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R5823	1-216-017-91	RES-CHIP	47	5%	1/10W
R5824	1-216-017-91	RES-CHIP	47	5%	1/10W
R5825	1-216-652-11	METAL CHIP	1.1K	0.5%	1/10W
R5826	1-216-295-91	SHORT	0		
R5829	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5830	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5831	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5832	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5833	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5834	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5835	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5836	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5837	1-216-075-00	RES-CHIP	12K	5%	1/10W
R5839	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5841	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5843	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5844	1-216-690-11	METAL CHIP	43K	0.5%	1/10W
R5845	1-216-668-11	METAL CHIP	5.1K	0.5%	1/10W
R5847	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5848	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5850	1-216-049-11	RES-CHIP	1K	5%	1/10W
R5851	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5854	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5855	1-215-864-00	METAL OXIDE	150	5%	1W
R5860	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5861	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5862	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R5863	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R5864	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5865	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5866	1-249-383-11	CARBON	1.5	5%	1/4W
R5867	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5869	1-249-383-11	CARBON	1.5	5%	1/4W
R5870	1-249-383-11	CARBON	1.5	5%	1/4W
R5871	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R5874	1-249-441-11	CARBON	100K	5%	1/4W
R5875	1-215-861-00	METAL OXIDE	47	5%	1W
R5882	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5894	1-216-691-11	METAL CHIP	47K	0.5%	1/10W
R5918	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5930	1-216-091-00	RES-CHIP	56K	5%	1/10W
R5931	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5932	1-216-089-91	RES-CHIP	47K	5%	1/10W
R5933	1-216-109-00	RES-CHIP	330K	5%	1/10W
R5934	1-216-033-00	RES-CHIP	220	5%	1/10W
R5935	1-216-017-91	RES-CHIP	47	5%	1/10W
R5936	1-216-017-91	RES-CHIP	47	5%	1/10W
R5937	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5938	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5945	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5946	1-216-675-91	METAL CHIP	10K	0.5%	1/10W
R5949	1-216-073-91	RES-CHIP	10K	5%	1/10W
R5951	1-216-673-11	METAL CHIP	8.2K	0.5%	1/10W

****

* A-1300-331-A F1 BOARD, COMPLETE
****

1-533-223-11 HOLDER, FUSE
* 4-374-846-01 COVER, CAPACITOR, CAP TYPE
7-447-019-03 MATERIAL, COATING CT-301S(1KG)

<CAPACITOR>

C601	⚠	1-104-708-11	MYLAR	0.47UF	20%	250V
C605	⚠	1-109-835-11	MYLAR	0.68UF	20%	250V
C606		1-113-976-11	MYLAR	0.47UF	20%	250V
C607		1-113-910-11	CERAMIC	470PF	10%	250V
C610		1-117-703-11	CERAMIC	0.0047UF	99%	250V

F1 F2 H1

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF. NO.		PART NO.	DESCRIPTION			REMARK
C611		1-126-951-11	ELECT	470UF	20%	35V
C612		1-126-768-11	ELECT	2200UF	20%	16V
C613		1-113-910-11	CERAMIC	470PF	10%	250V
C614		1-126-961-11	ELECT	2.2UF	20%	50V
C615	⚠	1-104-708-11	MYLAR	0.47UF	20%	250V
			<CONNECTOR>			
CN601	*	1-508-786-00	PIN, CONNECTOR (5mmPITCH) 2P			
CN602		1-695-915-11	TAB (CONTACT)			
CN603		1-580-843-11	PIN, CONNECTOR (POWER)			
CN606	*	1-766-240-11	PIN, CONNECTOR (PC BOARD) 2P			
CN607	*	1-766-241-11	PIN, CONNECTOR (PC BOARD) 3P			
CN610	*	1-564-512-11	PLUG, CONNECTOR 9P			
CN611		1-580-843-11	PIN, CONNECTOR (POWER)			
CN615		1-695-915-11	TAB (CONTACT)			
			<DIODE>			
D601		8-719-511-40	DIODE S1VB20			
D602		8-719-404-50	DIODE MA111-TX			
D603		8-719-404-50	DIODE MA111-TX			
			<FUSE>			
F601	⚠	1-532-325-00	FUSE, TIME-LAG 6.3A/250V			
			<FERRITE BEAD>			
FB601		1-412-911-11	FERRITE	0UH		
FB602		1-412-911-11	FERRITE	0UH		
			<TRANSISTOR>			
Q602		8-729-101-07	TRANSISTOR 2SB798-T1DL			
Q603		8-729-424-08	TRANSISTOR MUN2111T1			
Q604		8-729-010-25	TRANSISTOR MSD601-RT1			
			<RESISTOR>			
R602		1-216-025-11	RES-CHIP	100	5%	1/10W
R604		1-216-025-11	RES-CHIP	100	5%	1/10W
R606		1-216-295-91	SHORT	0		
R607		1-216-121-11	RES-CHIP	1M	5%	1/10W
R608		1-216-073-91	RES-CHIP	10K	5%	1/10W
R609	⚠	1-202-848-00	SOLID	680K	10%	1/2W
			<RELAY>			
RY601	⚠	1-755-389-11	RELAY (AC POWER)			
			<TRANSFORMER>			
T601	⚠	1-433-900-11	TRANSFORMER, LINE FILTER			
T602	⚠	1-433-900-11	TRANSFORMER, LINE FILTER			
T603	⚠	1-435-676-11	TRANSFORMER, STANDBY			

REF. NO.		PART NO.	DESCRIPTION			REMARK
			<THERMISTOR>			
TH601	⚠	1-803-540-11	THERMISTOR			
			<VARISTOR>			
VD601	⚠	1-803-830-11	VARISTOR (ERZV14D621)			

****

* A-1400-570-A F2 BOARD, COMPLETE
****

			<CONNECTOR>			
CN1651		1-580-843-11	PIN, CONNECTOR (POWER)			
			<SWITCH>			
S1651	⚠	1-571-433-21	SWITCH, PUSH (AC POWER)			

****

* A-1400-571-A H1 BOARD, COMPLETE
****

	*	4-055-304-01	HOLDER, LED			
			<CAPACITOR>			
C1910		1-126-933-11	ELECT	100UF	20.00%	16V
C1911		1-126-947-11	ELECT	47UF	20.00%	16V
C1912		1-102-824-00	CERAMIC	470PF	5.00%	50V
			<CONNECTOR>			
CN1901	*	1-564-510-11	PLUG, CONNECTOR 7P			
CN1902	*	1-564-506-11	PLUG, CONNECTOR 3P			
			<DIODE>			
D1906		8-719-045-19	DIODE SPB-26MVWF			
D1907		8-719-109-97	DIODE RD6.8ES-T2B			
D1908		8-719-109-97	DIODE RD6.8ES-T2B			
			<IC>			
IC1901		8-742-014-21	HYB IC SBX1981-51(21)			
			<TRANSISTOR>			
Q1901		8-729-029-56	TRANSISTOR DTA144ESA-TP			
Q1902		8-729-029-56	TRANSISTOR DTA144ESA-TP			

H1 H2 H3

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R1911	1-249-411-11	CARBON	330	5%	1/4W
R1914	1-249-411-11	CARBON	330	5%	1/4W
R1916	1-249-401-11	CARBON	47	5%	1/4W
R1917	1-247-807-31	CARBON	100	5%	1/4W
R1920	1-247-807-31	CARBON	100	5%	1/4W
R1921	1-247-807-31	CARBON	100	5%	1/4W
R1924	1-215-869-11	METAL OXIDE	1K	5%	1W

****

* A-1400-569-A H2 BOARD, COMPLETE
****

		<CAPACITOR>			
C4501	1-136-165-00	FILM	0.1UF	5%	50V
C4502	1-136-165-00	FILM	0.1UF	5%	50V
C4503	1-126-960-11	ELECT	1UF	20%	50V
C4504	1-119-824-11	ELECT	10UF	20%	50V
C4505	1-119-824-11	ELECT	10UF	20%	50V
C4506	1-126-960-11	ELECT	1UF	20%	50V
C4507	1-126-960-11	ELECT	1UF	20%	50V
C4508	1-130-483-00	MYLAR	0.01UF	5%	50V
		<CONNECTOR>			
CN4501*	1-564-508-11	PLUG, CONNECTOR 5P			
CN4503*	1-564-515-11	PLUG, CONNECTOR 12P			
		<DIODE>			
D4501	8-719-110-22	DIODE RD11ES-B2			
D4502	8-719-110-22	DIODE RD11ES-B2			
D4503	8-719-110-22	DIODE RD11ES-B2			
D4504	8-719-110-22	DIODE RD11ES-B2			
D4505	8-719-110-22	DIODE RD11ES-B2			
D4506	8-719-110-22	DIODE RD11ES-B2			
D4508	8-719-991-33	DIODE 1SS133T-77			
D4509	8-719-991-33	DIODE 1SS133T-77			
		<FILTER>			
FL4501	1-469-818-11	INDUCTOR	0UH		
FL4502	1-469-818-11	INDUCTOR	0UH		
FL4503	1-469-818-11	INDUCTOR	0UH		
		<JACK>			
J4501	1-537-744-11	TERMINAL, S			
J4502	1-770-786-11	JACK			
J4503	1-770-329-11	JACK, PIN 3P			

REF. NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R4501	1-249-411-11	CARBON	330	5%	1/4W
R4503	1-249-411-11	CARBON	330	5%	1/4W
R4504	1-249-417-11	CARBON	1K	5%	1/4W
R4505	1-247-804-11	CARBON	75	5%	1/4W
R4506	1-247-895-91	CARBON	470K	5%	1/4W
R4507	1-247-895-91	CARBON	470K	5%	1/4W
R4508	1-247-804-11	CARBON	75	5%	1/4W
R4509	1-249-417-11	CARBON	1K	5%	1/4W
R4510	1-247-804-11	CARBON	75	5%	1/4W
R4511	1-249-389-11	CARBON	4.7	5%	1/4W
R4512	1-249-389-11	CARBON	4.7	5%	1/4W

****

* A-1400-574-A H3 BOARD, COMPLETE
****

		<CAPACITOR>			
C1970	1-164-005-11	CERAMIC CHIP 0.47UF			25V
		<CONNECTOR>			
CN1980*	1-564-518-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D1970	8-719-911-19	DIODE 1SS119-25TD			
D1971	8-719-911-19	DIODE 1SS119-25TD			
D1972	8-719-911-19	DIODE 1SS119-25TD			
D1973	8-719-109-97	DIODE RD6.8ES-T2B			
D1974	8-719-109-97	DIODE RD6.8ES-T2B			
D1975	8-719-109-97	DIODE RD6.8ES-T2B			
		<RESISTOR>			
R1970	1-249-416-11	CARBON	820	5%	1/4W
R1971	1-249-417-11	CARBON	1K	5%	1/4W
R1972	1-249-418-11	CARBON	1.2K	5%	1/4W
R1973	1-249-420-11	CARBON	1.8K	5%	1/4W
R1974	1-247-843-11	CARBON	3.3K	5%	1/4W
R1975	1-249-427-11	CARBON	6.8K	5%	1/4W
R1976	1-249-432-11	CARBON	18K	5%	1/4W
		<SWITCH>			
S1972	1-572-198-11	SWITCH, KEYBOARD			
S1973	1-572-198-11	SWITCH, KEYBOARD			
S1974	1-572-198-11	SWITCH, KEYBOARD			
S1975	1-572-198-11	SWITCH, KEYBOARD			
S1976	1-572-198-11	SWITCH, KEYBOARD			
S1977	1-572-198-11	SWITCH, KEYBOARD			

H3 ST U1

REF. NO.	PART NO.	DESCRIPTION			REMARK
S1978	1-572-198-11	SWITCH, KEYBOARD			
S1979	1-572-198-11	SWITCH, KEYBOARD			

****

* A-1391-032-A ST BOARD, COMPLETE
****

<CAPACITOR>

C6402	1-163-005-91	CERAMIC CHIP	470PF	10%	50V
C6404	1-163-037-11	CERAMIC CHIP	0.022UF	10%	50V
C6405	1-164-161-11	CERAMIC CHIP	0.0022UF	10%	50V

<DIODE>

D6401	8-719-110-39	DIODE	RD15ES-T1B
D6402	8-719-911-19	DIODE	1SS119-25
D6403	8-719-911-19	DIODE	1SS119-25
D6404	8-719-911-19	DIODE	1SS119-25
D6405	8-719-110-39	DIODE	RD15ES-T1B

<PHOTO COUPLER>

PH6401	8-749-010-64	PHOTO COUPLER	PC123FY2

<TRANSISTOR>

Q6401	8-729-052-17	TRANSISTOR	2SK2177F71
Q6402	8-729-052-17	TRANSISTOR	2SK2177F71
Q6403	8-729-422-33	TRANSISTOR	2SD601A-Q-TX
Q6404	8-729-422-33	TRANSISTOR	2SD601A-Q-TX
Q6405	8-729-422-33	TRANSISTOR	2SD601A-Q-TX
Q6406	8-729-216-22	TRANSISTOR	2SA1162-G

<RESISTOR>

R6401	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R6402	1-208-291-11	RES-CHIP	4.7M	5%	1/10W
R6403	1-216-121-11	RES-CHIP	1M	5%	1/10W
R6404	1-216-121-11	RES-CHIP	1M	5%	1/10W
R6405	1-216-107-00	RES-CHIP	270K	5%	1/10W
R6406	1-216-103-00	RES-CHIP	180K	5%	1/10W
R6407	1-216-103-00	RES-CHIP	180K	5%	1/10W
R6408	1-216-097-11	RES-CHIP	100K	5%	1/10W
R6409	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R6410	1-216-085-91	RES-CHIP	33K	5%	1/10W
R6411	1-216-129-00	RES-CHIP	2.2M	5%	1/10W
R6412	1-216-121-11	RES-CHIP	1M	5%	1/10W
R6413	1-216-097-11	RES-CHIP	100K	5%	1/10W

****

REF. NO.	PART NO.	DESCRIPTION			REMARK

* A-1400-567-A U1 BOARD, COMPLETE
****

<CAPACITOR>

C2405	1-119-824-11	ELECT	10UF	20%	50V
C2406	1-119-824-11	ELECT	10UF	20%	50V
C2407	1-119-824-11	ELECT	10UF	20%	50V
C2408	1-119-824-11	ELECT	10UF	20%	50V
C2409	1-119-824-11	ELECT	10UF	20%	50V
C2410	1-119-824-11	ELECT	10UF	20%	50V
C2411	1-126-926-11	ELECT	1000UF	20%	10V
C2412	1-119-824-11	ELECT	10UF	20%	50V
C2413	1-119-824-11	ELECT	10UF	20%	50V
C2416	1-127-736-51	ELECT	10UF	20%	50V
C2417	1-127-736-51	ELECT	10UF	20%	50V
C2419	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C2420	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C2423	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C2424	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C2425	1-126-964-11	ELECT	10UF	20%	50V
C2426	1-126-964-11	ELECT	10UF	20%	50V
C2427	1-126-964-11	ELECT	10UF	20%	50V
C2429	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C2430	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C2431	1-126-964-11	ELECT	10UF	20%	50V
C2432	1-126-964-11	ELECT	10UF	20%	50V
C2433	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C2434	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C2438	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C2439	1-163-133-00	CERAMIC CHIP	470PF	5%	50V

<CONNECTOR>

CN2401*	1-793-923-11	CONNECTOR, DIN (PLUG) 64P	

<DIODE>

D2401	8-719-977-28	DIODE	DTZ10B
D2402	8-719-977-28	DIODE	DTZ10B
D2403	8-719-977-28	DIODE	DTZ10B
D2405	8-719-977-28	DIODE	DTZ10B
D2406	8-719-977-28	DIODE	DTZ10B
D2407	8-719-977-28	DIODE	DTZ10B
D2409	8-719-977-28	DIODE	DTZ10B
D2410	8-719-800-76	DIODE	1SS226
D2411	8-719-977-28	DIODE	DTZ10B
D2412	8-719-800-76	DIODE	1SS226
D2413	8-719-800-76	DIODE	1SS226
D2414	8-719-800-76	DIODE	1SS226
D2415	8-719-800-76	DIODE	1SS226
D2416	8-719-800-76	DIODE	1SS226
D2417	8-719-025-36	DIODE	02CZ8.2-TE85L
D2418	8-719-025-36	DIODE	02CZ8.2-TE85L
D2427	8-719-977-28	DIODE	DTZ10B
D2428	8-719-977-28	DIODE	DTZ10B

U1 V

REF. NO.	PART NO.	DESCRIPTION			REMARK
D2433	8-719-800-76	DIODE 1SS226			
D2434	8-719-800-76	DIODE 1SS226			
D2435	8-719-800-76	DIODE 1SS226			
D2436	8-719-800-76	DIODE 1SS226			
D2437	8-719-800-76	DIODE 1SS226			
D2438	8-719-800-76	DIODE 1SS226			
		<JACK>			
J2401	1-793-723-11	TERMINAL BLOCK, S			
J2402	1-794-512-11	JACK BLOCK, PIN 6P			
J2410	1-815-015-11	JACK BLOCK, PIN			
J2411	1-815-015-11	JACK BLOCK, PIN			
		<CHIP CONDUCTOR>			
JR2403	1-216-295-91	SHORT	0		
JR2405	1-216-295-91	SHORT	0		
JR2408	1-216-295-91	SHORT	0		
JR2410	1-216-295-91	SHORT	0		
JR2412	1-216-295-91	SHORT	0		
JR2415	1-216-295-91	SHORT	0		
JR2416	1-216-295-91	SHORT	0		
JR2417	1-216-295-91	SHORT	0		
		<RESISTOR>			
R2314	1-216-295-91	SHORT	0		
R2315	1-216-295-91	SHORT	0		
R2316	1-216-295-91	SHORT	0		
R2317	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2318	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2401	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2402	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2403	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2407	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2408	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2409	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2414	1-216-295-91	SHORT	0		
R2415	1-216-295-91	SHORT	0		
R2416	1-216-033-00	RES-CHIP	220	5%	1/10W
R2417	1-216-033-00	RES-CHIP	220	5%	1/10W
R2418	1-216-295-91	SHORT	0		
R2419	1-216-295-91	SHORT	0		
R2420	1-216-033-00	RES-CHIP	220	5%	1/10W
R2421	1-216-033-00	RES-CHIP	220	5%	1/10W
R2422	1-216-022-00	RES-CHIP	75	5%	1/10W
R2423	1-216-022-00	RES-CHIP	75	5%	1/10W
R2424	1-216-022-00	RES-CHIP	75	5%	1/10W
R2425	1-216-033-00	RES-CHIP	220	5%	1/10W
R2426	1-216-033-00	RES-CHIP	220	5%	1/10W
R2427	1-216-295-91	SHORT	0		
R2428	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2429	1-216-033-00	RES-CHIP	220	5%	1/10W
R2430	1-216-033-00	RES-CHIP	220	5%	1/10W
R2431	1-216-033-00	RES-CHIP	220	5%	1/10W
R2432	1-216-033-00	RES-CHIP	220	5%	1/10W
R2434	1-216-021-00	RES-CHIP	68	5%	1/10W
R2435	1-216-033-00	RES-CHIP	220	5%	1/10W
R2436	1-216-033-00	RES-CHIP	220	5%	1/10W
R2437	1-216-033-00	RES-CHIP	220	5%	1/10W
R2438	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2439	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2442	1-216-039-00	RES-CHIP	390	5%	1/10W
R2443	1-216-295-91	SHORT	0		
R2444	1-216-295-91	SHORT	0		
R2446	1-216-039-00	RES-CHIP	390	5%	1/10W
R2447	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2448	1-216-089-91	RES-CHIP	47K	5%	1/10W
R2449	1-216-033-00	RES-CHIP	220	5%	1/10W
R2450	1-216-033-00	RES-CHIP	220	5%	1/10W

****

* A-1342-559-A V BOARD, COMPLETE
****

* 4-042-408-01 PIN, COATING LEAD
4-382-854-01 SCREW (M3X8), P, SW (+)

<CAPACITOR>

C9101	1-107-364-11	MYLAR	0.01UF	10%	200V
C9102	1-107-364-11	MYLAR	0.01UF	10%	200V
C9103	1-163-009-91	CERAMIC CHIP	0.001UF	10%	50V
C9104	1-163-009-91	CERAMIC CHIP	0.001UF	10%	50V
C9105	1-106-375-12	MYLAR	0.022UF	99%	200V
C9106	1-107-667-11	ELECT	2.2UF	20%	160V
C9107	1-126-935-11	ELECT	470UF	20%	16V
C9108	1-126-935-11	ELECT	470UF	20%	16V
C9109	1-107-963-11	ELECT	33UF	20%	160V
C9110	1-107-364-11	MYLAR	0.01UF	10%	200V
C9111	1-126-933-11	ELECT	100UF	20%	16V
C9112	1-126-933-11	ELECT	100UF	20%	16V
C9113	1-126-933-11	ELECT	100UF	20%	16V
C9115	1-126-935-11	ELECT	470UF	20%	6.3V
C9116	1-126-935-11	ELECT	470UF	20%	6.3V
C9117	1-104-999-11	MYLAR	0.1UF	10%	200V
C9130	1-130-483-00	MYLAR	0.01UF	5%	50V

<CONNECTOR>

CN9101*	1-564-506-11	PLUG, CONNECTOR 3P
CN9102*	1-564-512-11	PLUG, CONNECTOR 9P
CN9104*	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P

<DIODE>

D9101	8-719-924-11	DIODE	MTZJ-T-77-22
D9102	8-719-924-11	DIODE	MTZJ-T-77-22
D9103	1-216-295-91	SHORT	0
D9104	8-719-404-50	DIODE	MA111-TX
D9105	8-719-404-50	DIODE	MA111-TX
D9106	8-719-404-50	DIODE	MA111-TX

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

V

REF. NO.	PART NO.	DESCRIPTION			REMARK
D9107	8-719-510-02	DIODE D1NS4			
		<COIL>			
L9101	1-412-525-31	INDUCTOR	10UH		
		<TRANSISTOR>			
Q9101	8-729-045-05	TRANSISTOR	2SA2005		
Q9102	8-729-045-04	TRANSISTOR	2SC5511		
Q9105	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q9106	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9107	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q9108	8-729-424-02	TRANSISTOR	2SB709A-QRS-TX		
Q9109	8-729-122-63	TRANSISTOR	2SA1226		
		<RESISTOR>			
R9101	1-216-431-11	METAL OXIDE	560	5%	1W
R9102	1-249-414-11	CARBON	560	5%	1/4W
R9103	1-249-432-11	CARBON	18K	5%	1/4W
R9104	1-249-432-11	CARBON	18K	5%	1/4W
R9105	1-249-414-11	CARBON	560	5%	1/4W
R9106	1-249-421-11	CARBON	2.2K	5%	1/4W
R9107	1-249-421-11	CARBON	2.2K	5%	1/4W
R9108	1-247-735-11	CARBON	47	5%	1/2W
R9109	1-249-383-11	CARBON	1.5	5%	1/4W
R9110	1-249-383-11	CARBON	1.5	5%	1/4W
R9111	1-249-401-11	CARBON	47	5%	1/4W
R9112	1-215-917-11	METAL OXIDE	1K	5%	3W
R9113	1-216-017-91	RES-CHIP	47	5%	1/10W
R9114	1-249-421-11	CARBON	2.2K	5%	1/4W
R9115	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9117	1-216-047-91	RES-CHIP	820	5%	1/10W
R9122	1-216-045-00	RES-CHIP	680	5%	1/10W
R9123	1-249-401-11	CARBON	47	5%	1/4W
R9124	1-249-401-11	CARBON	47	5%	1/4W
R9125	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9126	1-249-385-11	CARBON	2.2	5%	1/4W
R9127	1-216-298-00	RES-CHIP	2.2	5%	1/10W
R9128	1-216-295-91	SHORT	0		
R9129	1-216-033-00	RES-CHIP	220	5%	1/10W

****

MISCELLANEOUS
****

⚠	1-419-293-11	COIL, DEGAUSSING	(ES34K9H)
⚠	1-419-845-11	COIL, DEGAUSSING	(ES38K9H)
⚠	1-451-498-21	COIL, NA ROTATION	
	1-452-032-00	MAGNET,DISC	
	1-452-094-00	CIRCULAR DISC MAGNET B	
	1-456-032-11	COIL, LANDING CORRECTION	(ES34K9H)
	1-456-033-11	COIL, LANDING CORRECTION	(ES38K9H)
	1-505-473-11	SPEAKER (12CM)	
	1-529-562-11	SPEAKER (7X4CM)	(ES34K9H)
	1-529-939-11	SPEAKER (9X5CM)	(ES38K9H)
	1-529-940-11	SPEAKER (5CM)	(ES38K9H)
	1-792-458-11	CABLE, RF (WITH FERRITE)	
⚠	1-823-473-11	CORD, POWER (WITH FILTER)	
⚠	8-451-512-21	DY Y34RSC-Y	(ES34K9H)
⚠	8-453-009-21	NA325-M2	
⚠	8-734-071-06	ITC 38RSN-C1D	(ES38K9H)
⚠	8-735-062-00	PICTURE TUBE (A80LPD10X)	(ES34K9H)
⚠	8-735-088-00	PICTURE TUBE (A90LPW80X)	(ES38K9H)

****

ACCESSORIES AND PACKING MATERIALS
****

	1-477-100-11	REMOTE COMMANDER (RM-970)
	4-079-833-01	BATTERY COVER (FOR RM-970)
	1-765-167-21	CABLE, COAXIAL (WITH (F) PLUG)
	3-701-910-00	SCREW, SPECIAL (DIA. 3 8X20)
*	4-055-673-01	SHEET, PROTECTION (ES38K9H)
*	4-067-103-11	TRAY (ES34K9H)
*	4-081-299-01	BAG, PROTECTION (ES38K9H)
*	4-084-491-02	TRAY (ES38K9H)
*	4-084-494-11	CUSHION (UPPER) (ES38K9H)
*	4-084-495-02	CUSHION (LOWER) (ES38K9H)
	4-086-794-13	MANUAL, INSTRUCTION
*	4-384-101-21	BAG, PROTECTION (ES34K9H)
	4-392-003-01	BAND, HOLD
	4-392-004-01	CLIP
*	X-4039-296-4	BASE TRAY ASSY (ES38K9H)

©2002.3